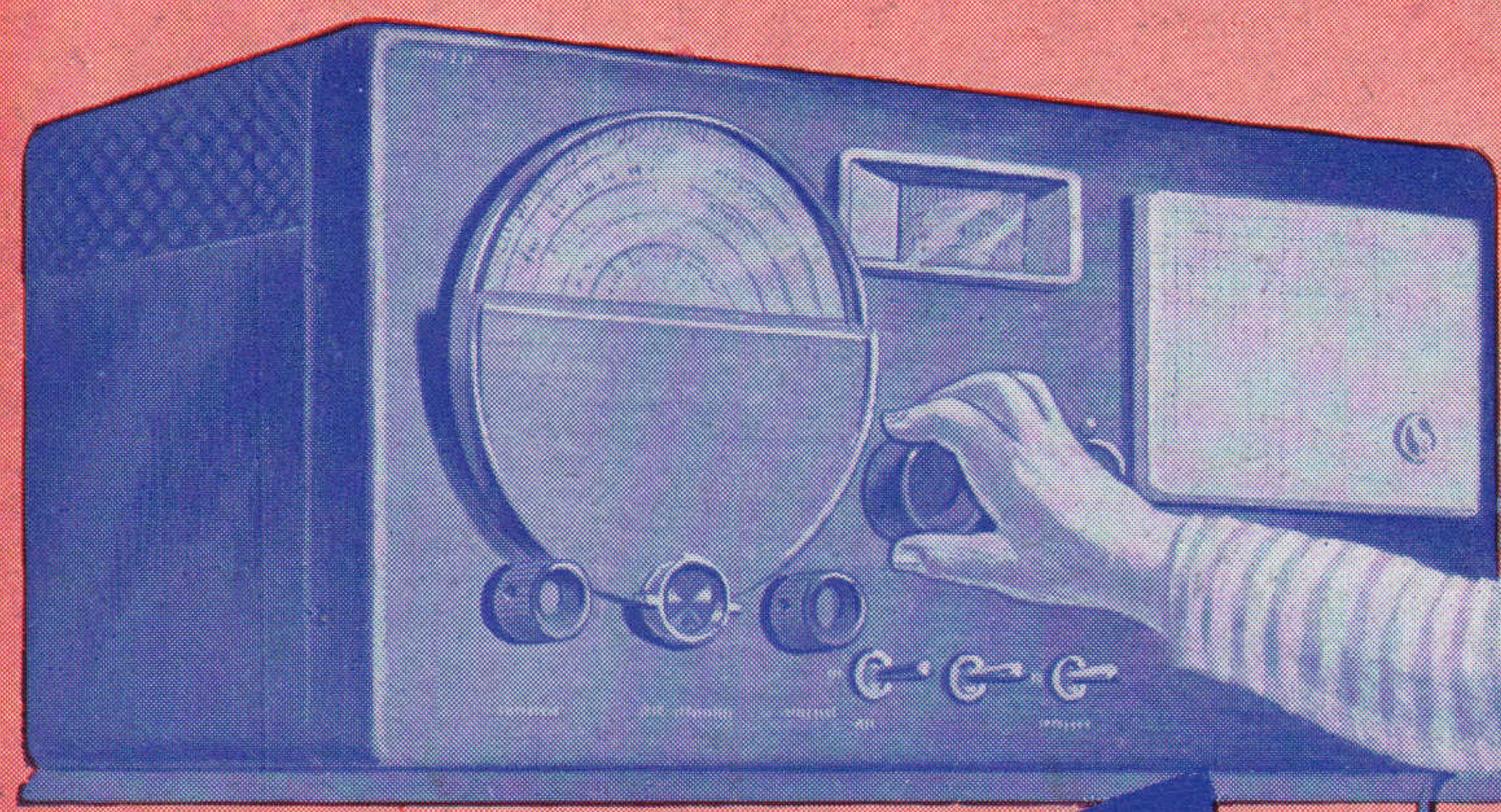


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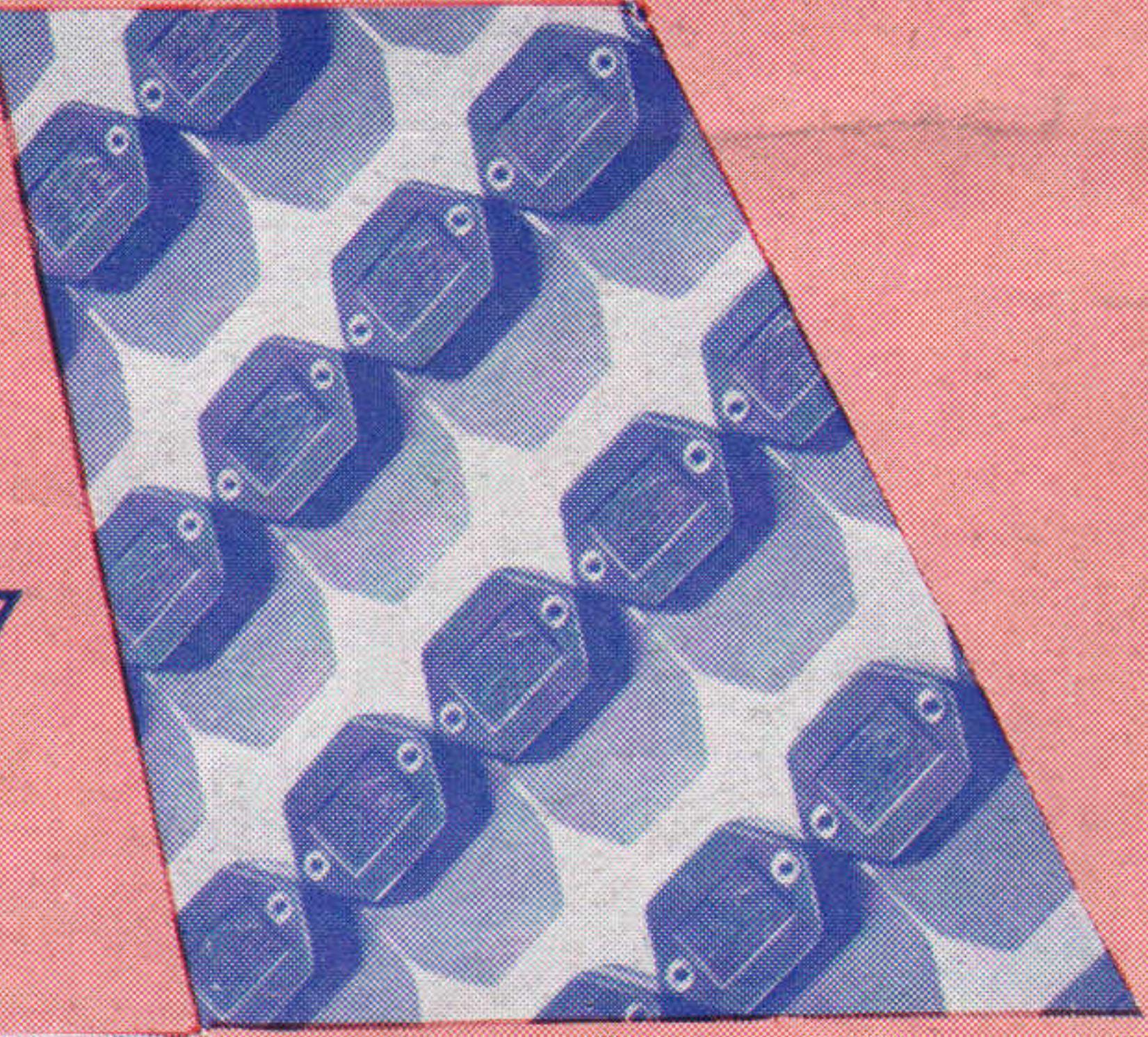
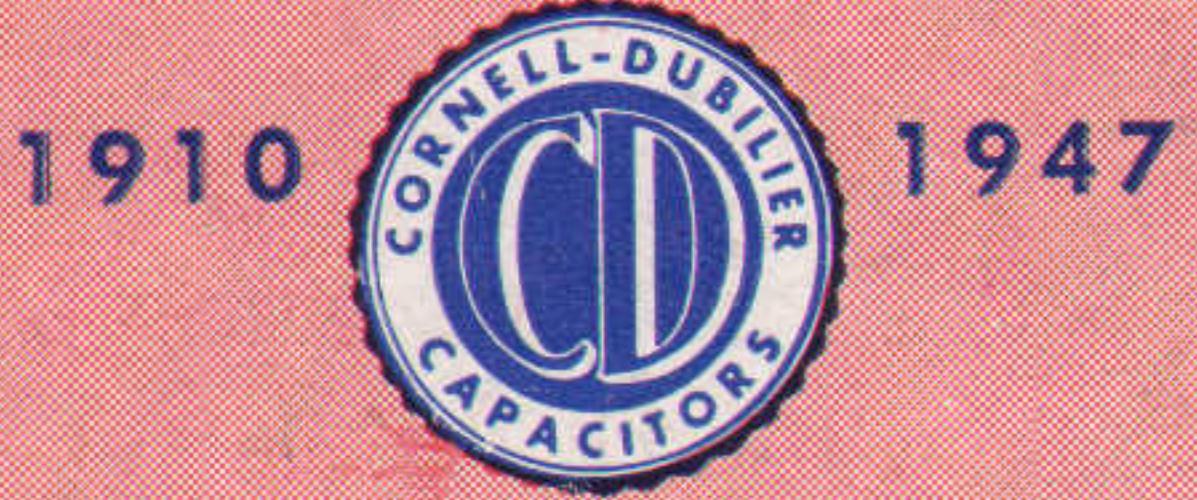
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MRS

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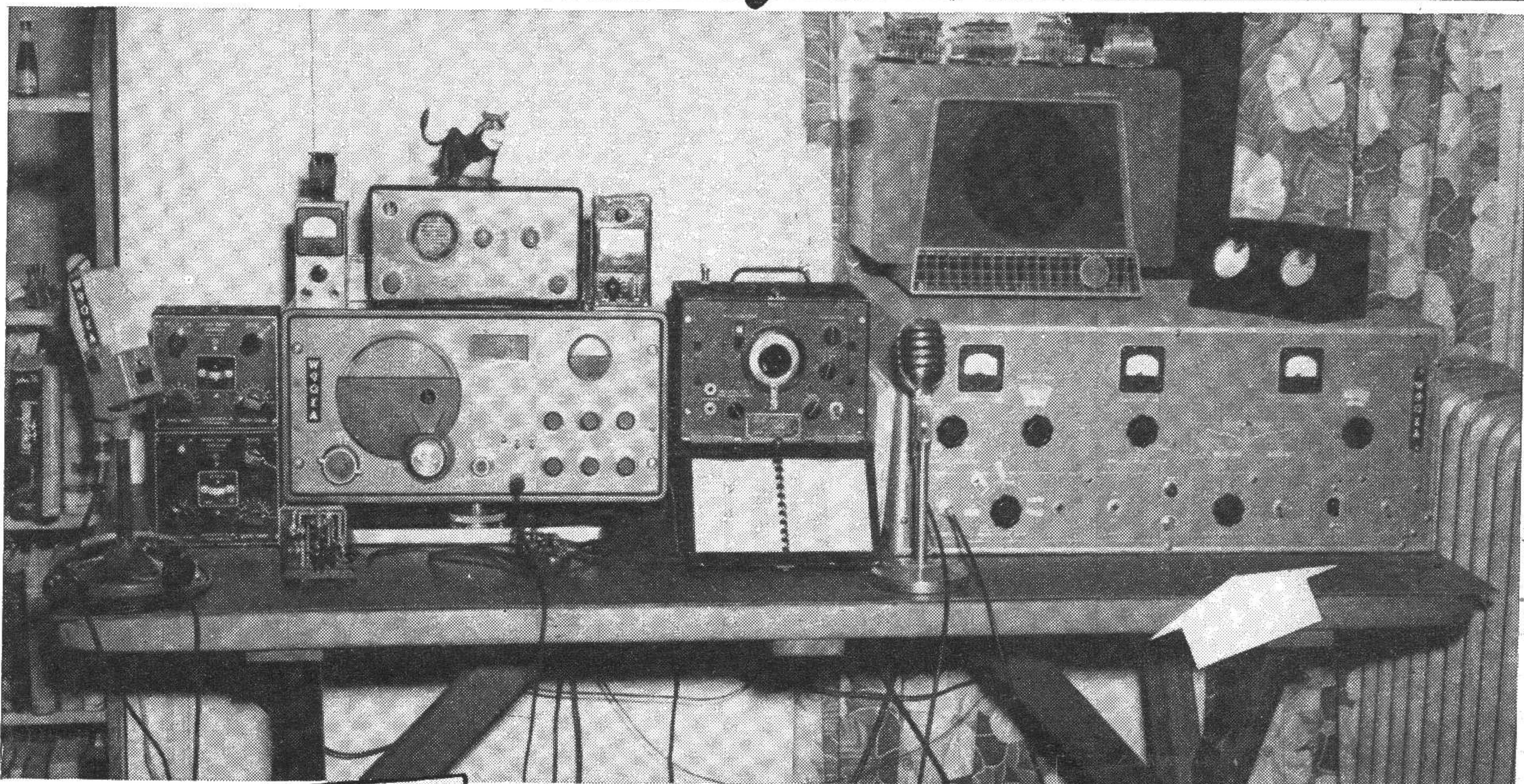


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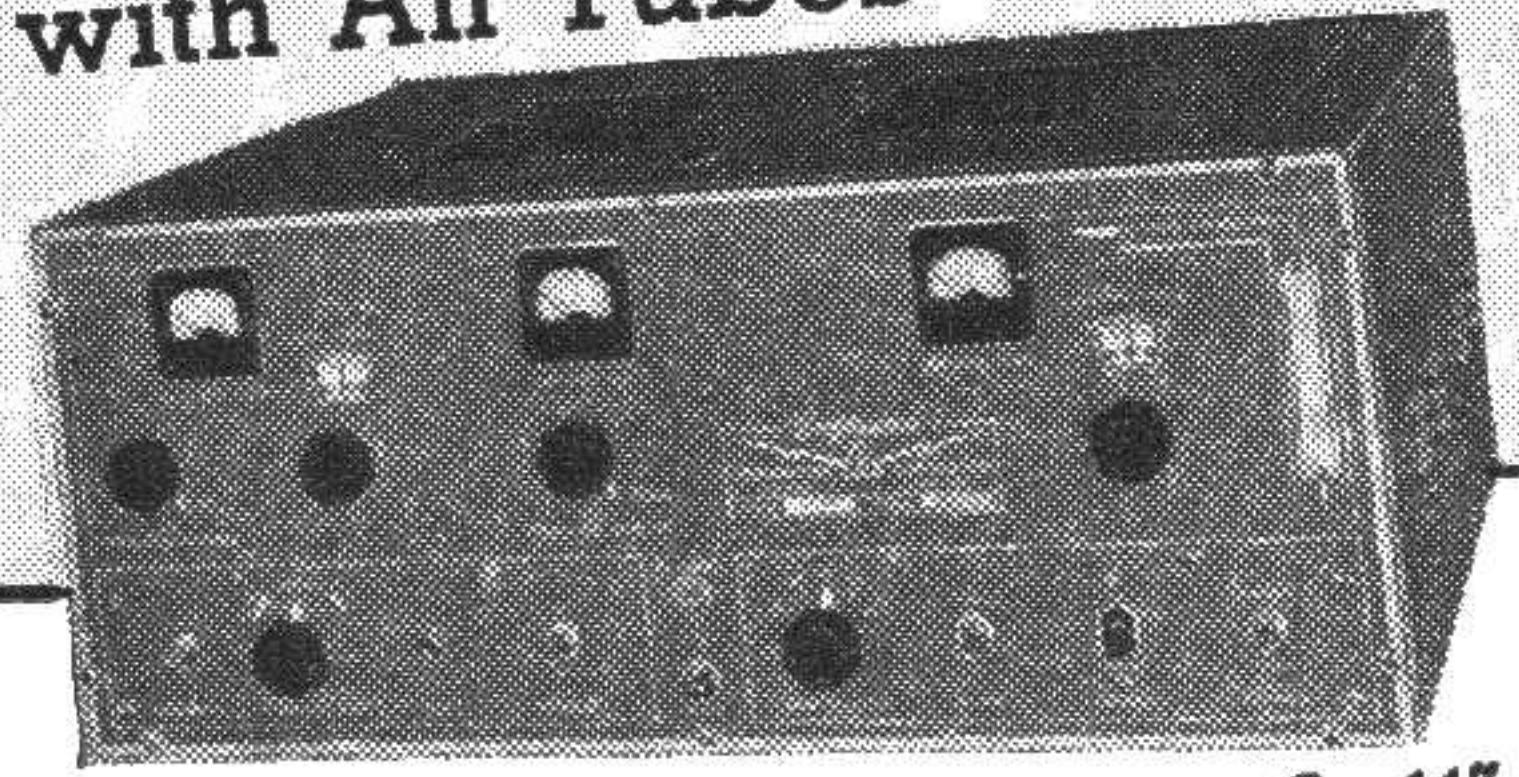
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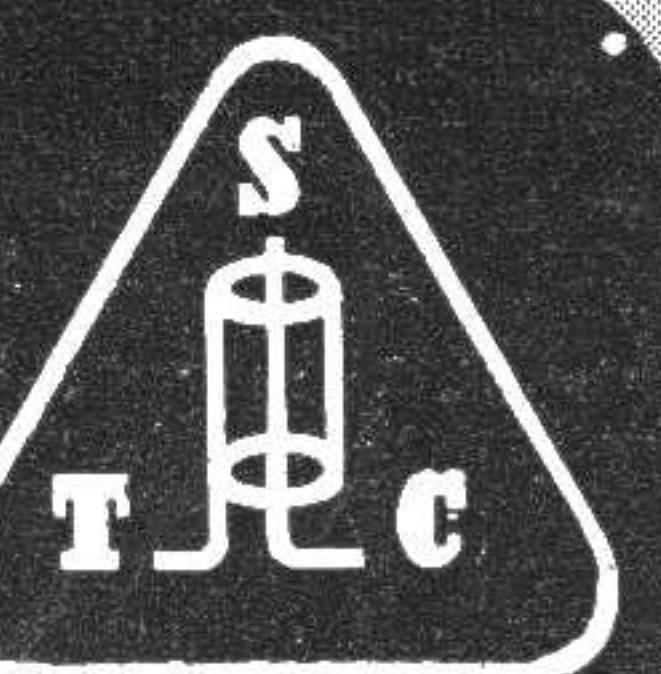
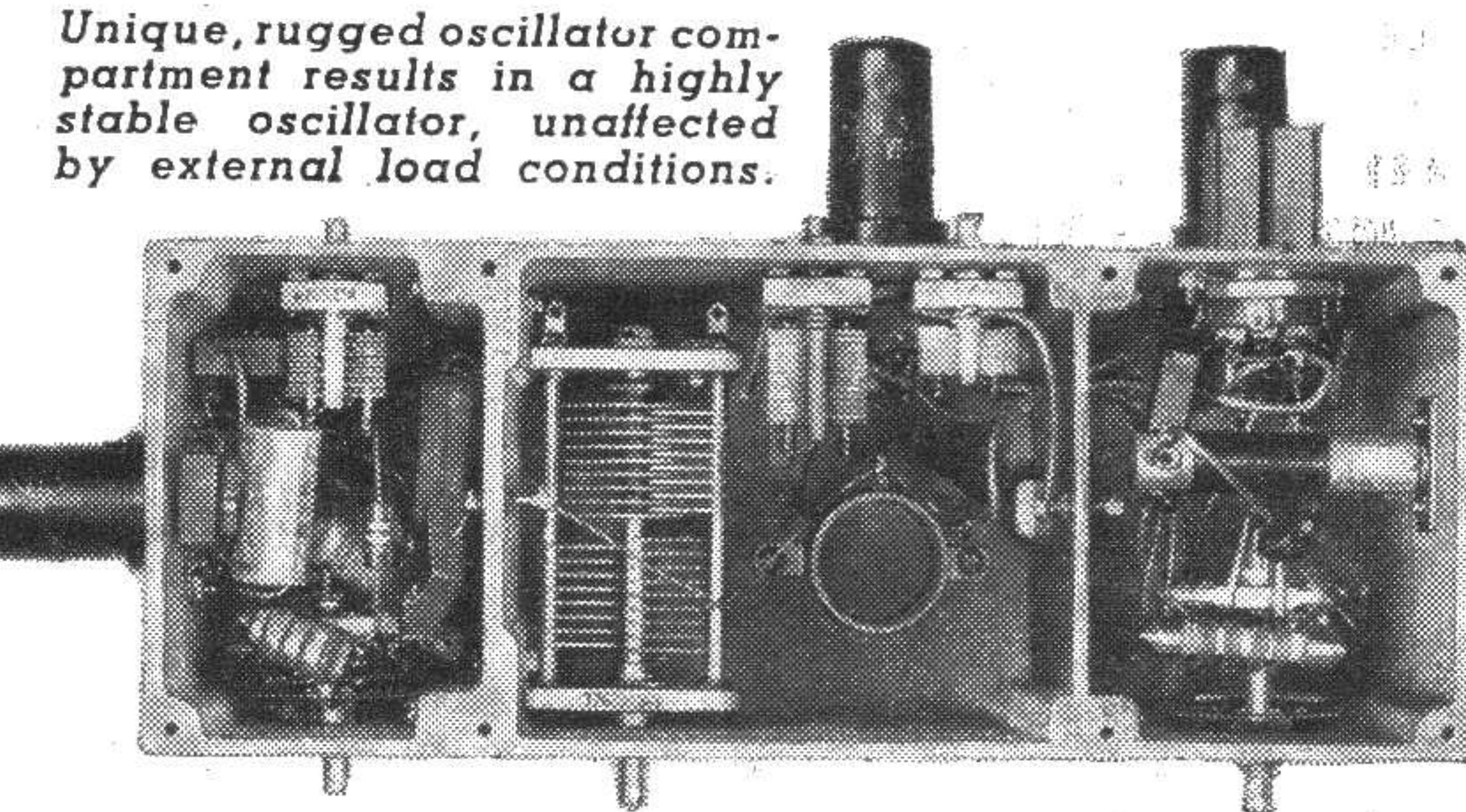
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RADIO AMATEUR CALL BOOK

MAGAZINE

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You may receive a questionnaire from us asking for all of your ex-calls and your full name, including your middle name. This information is desired for identification purposes only so that your call will not be confused with another radio amateur having the same last name.

The Editor.

VOLUME 25 NUMBER 3

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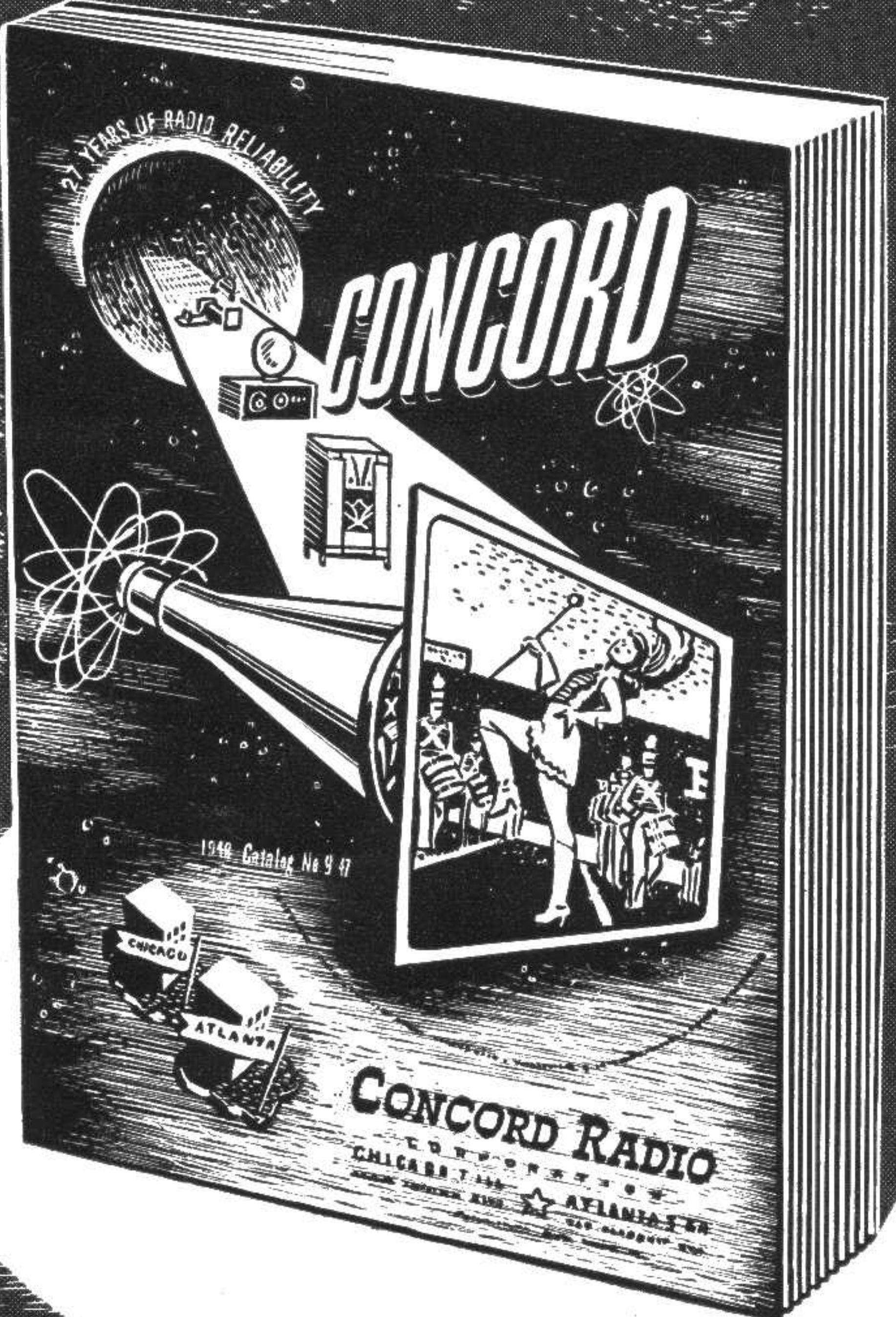
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CHARLES O. STIMPSON
W9TRD

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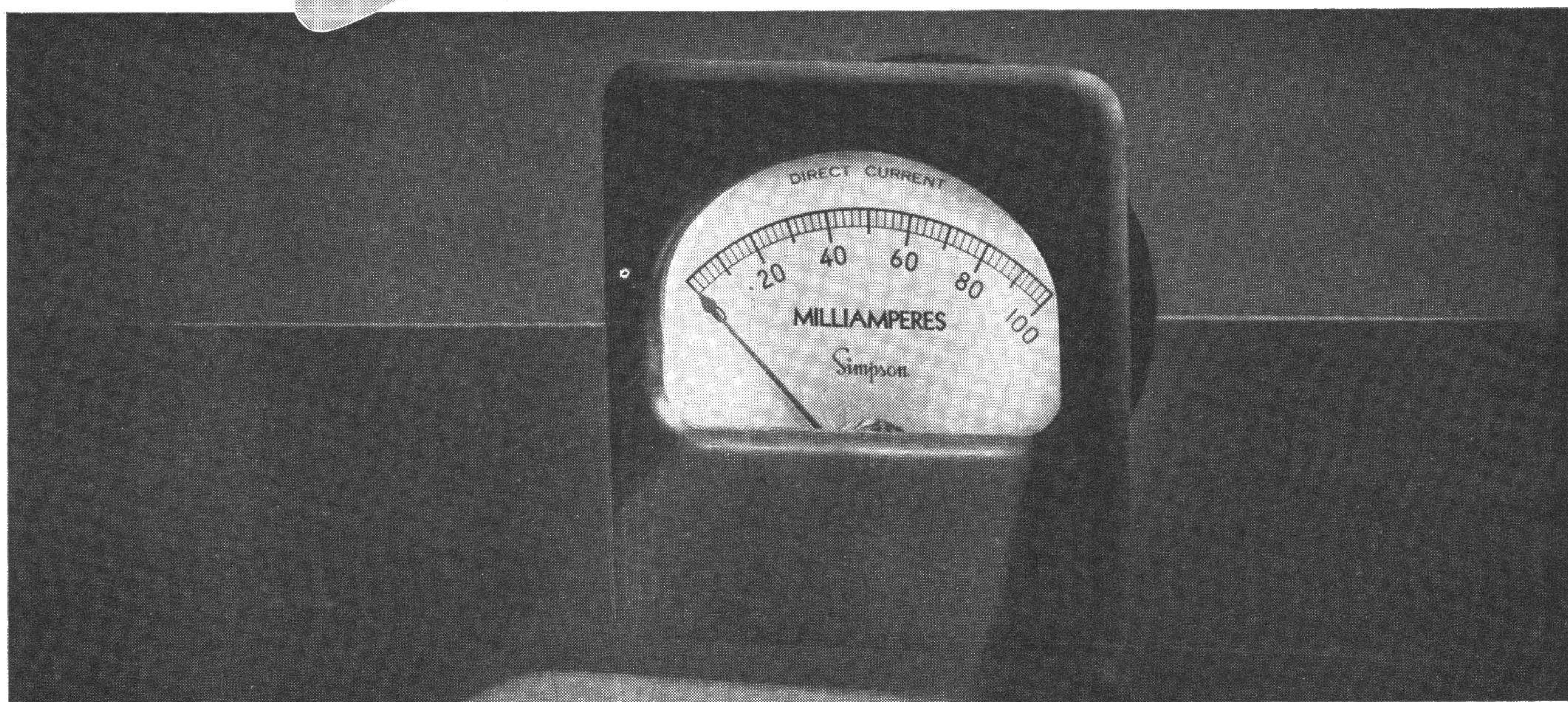
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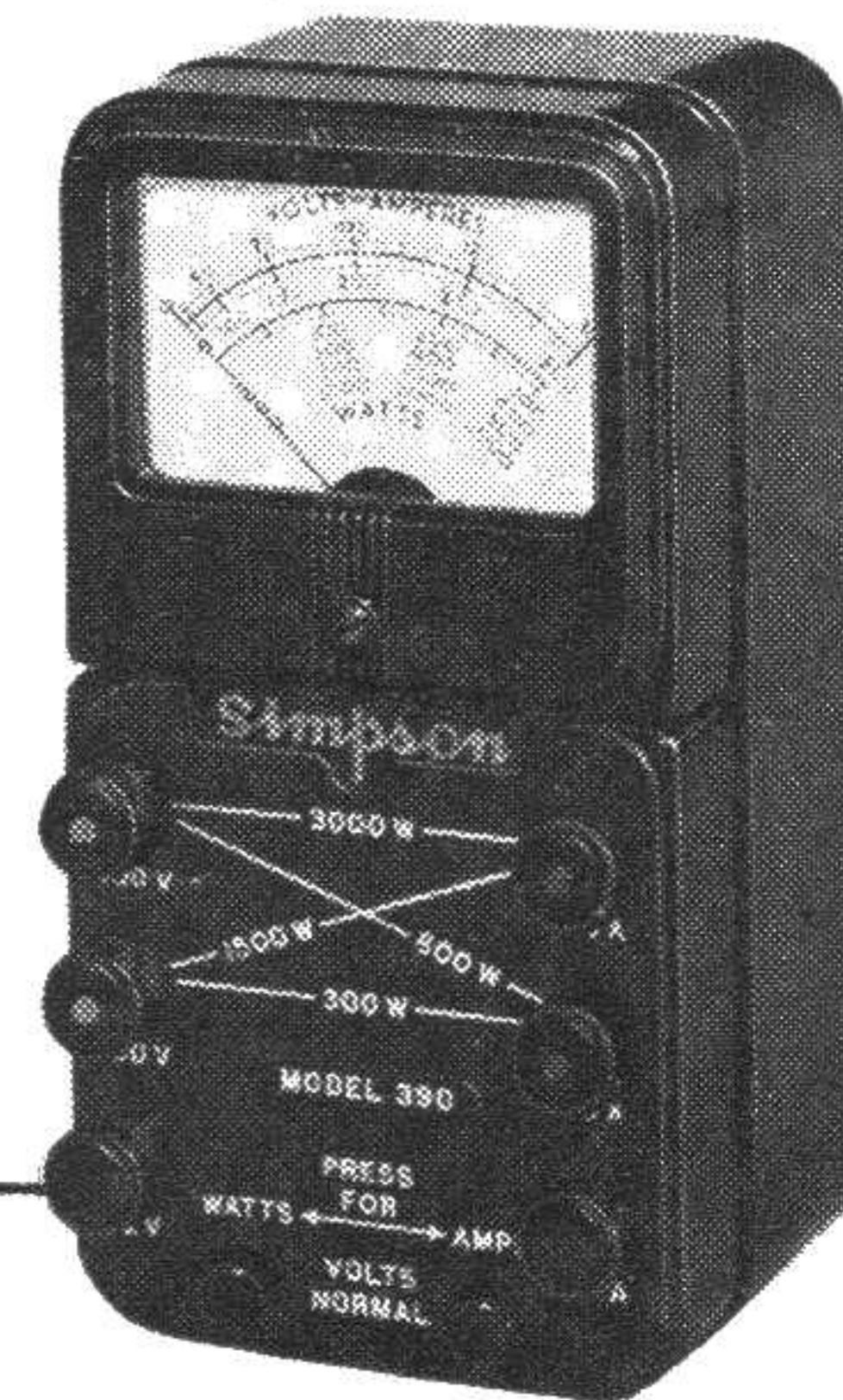
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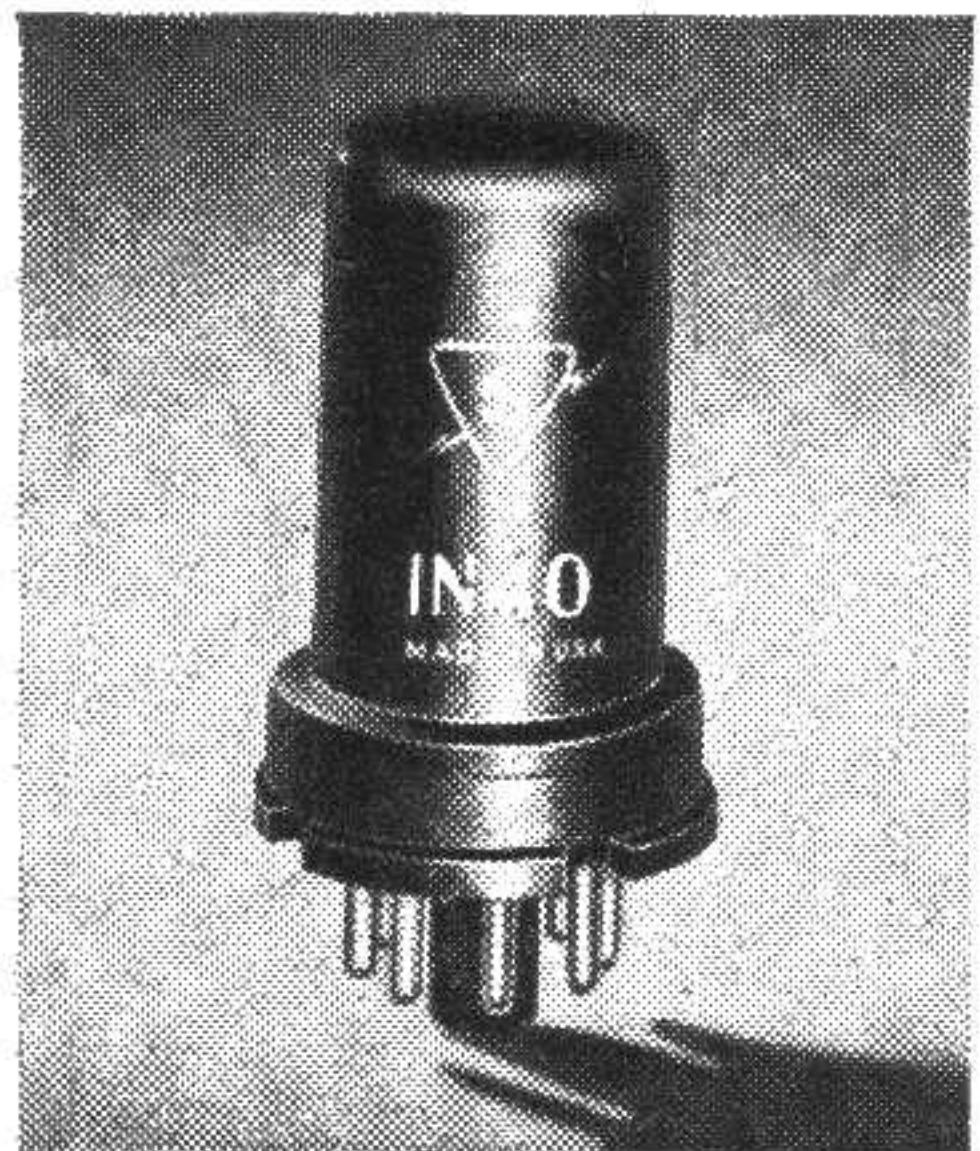


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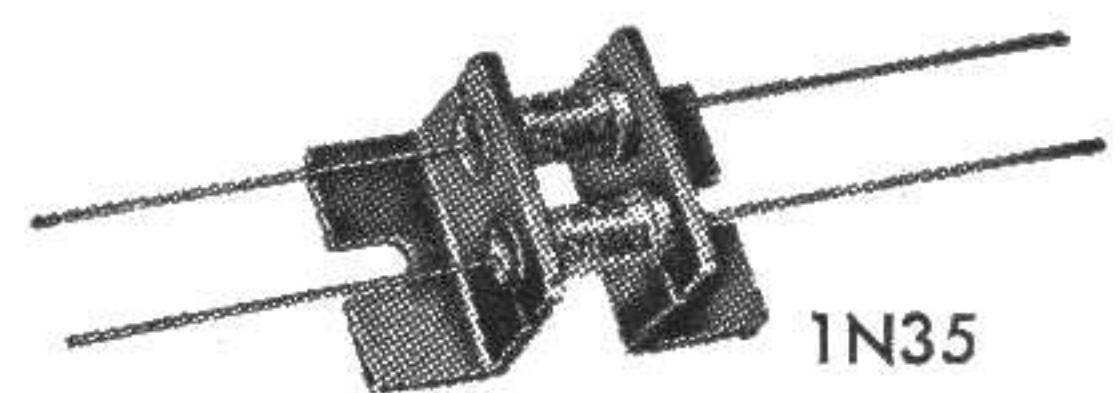
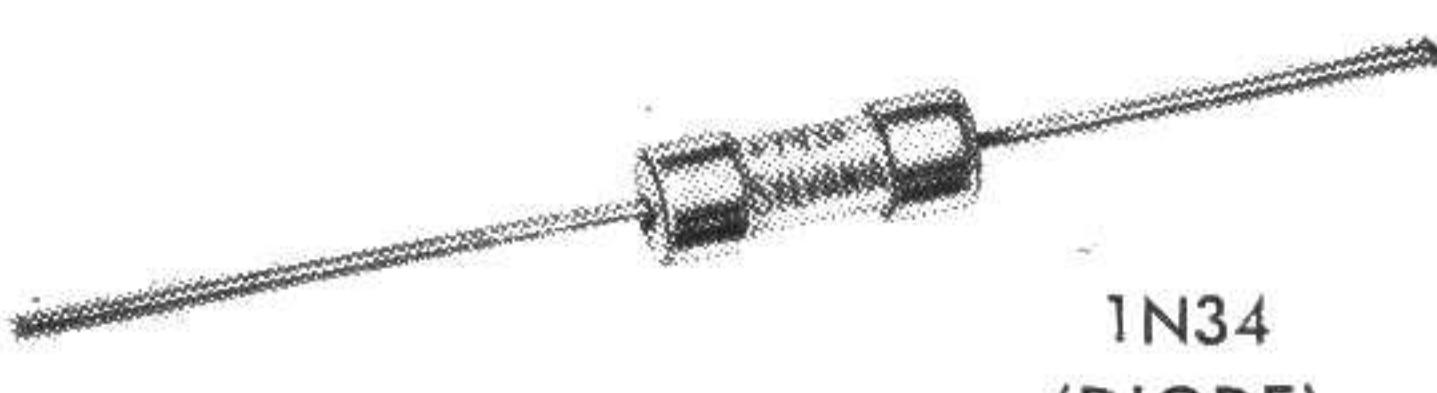
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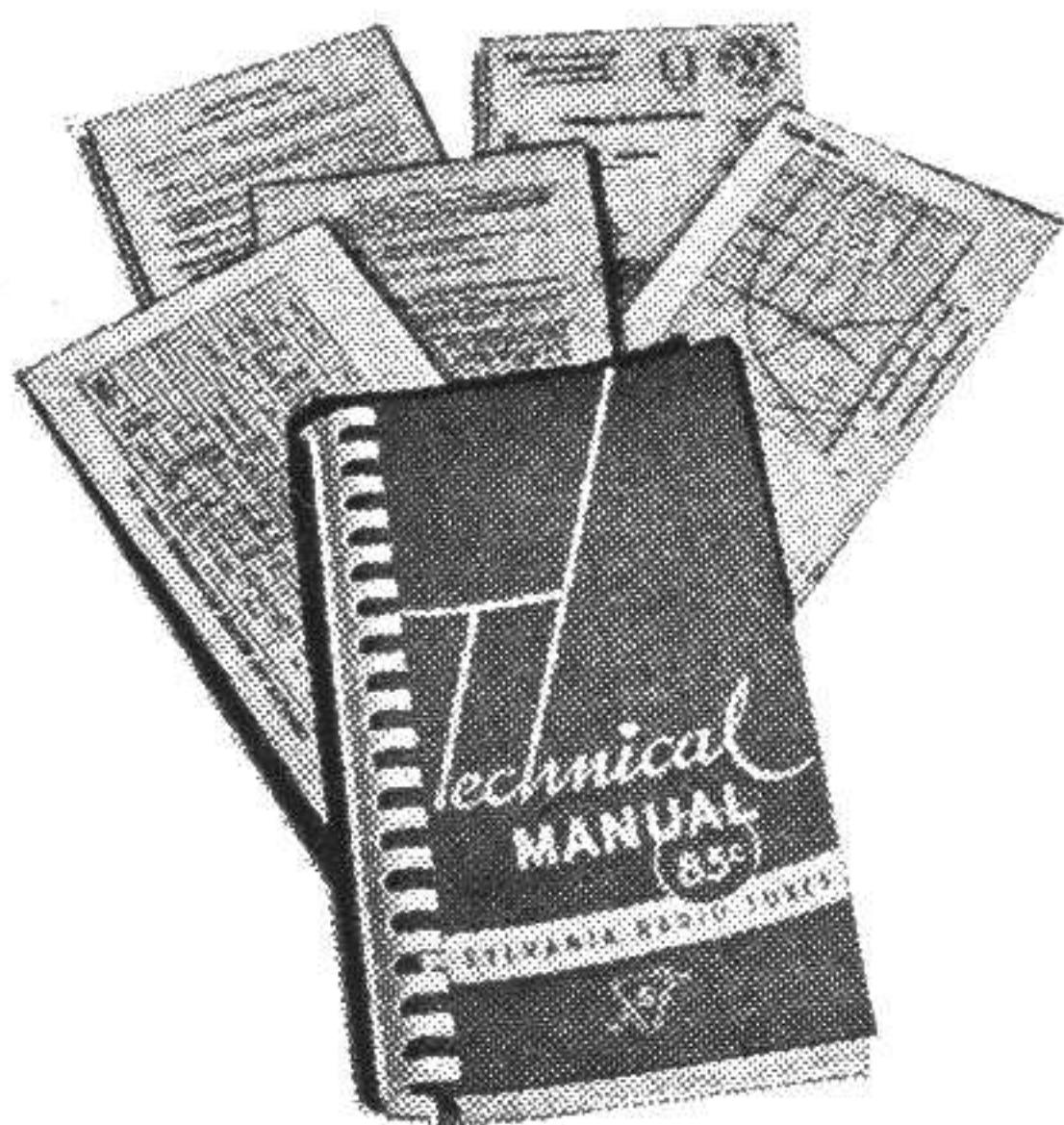
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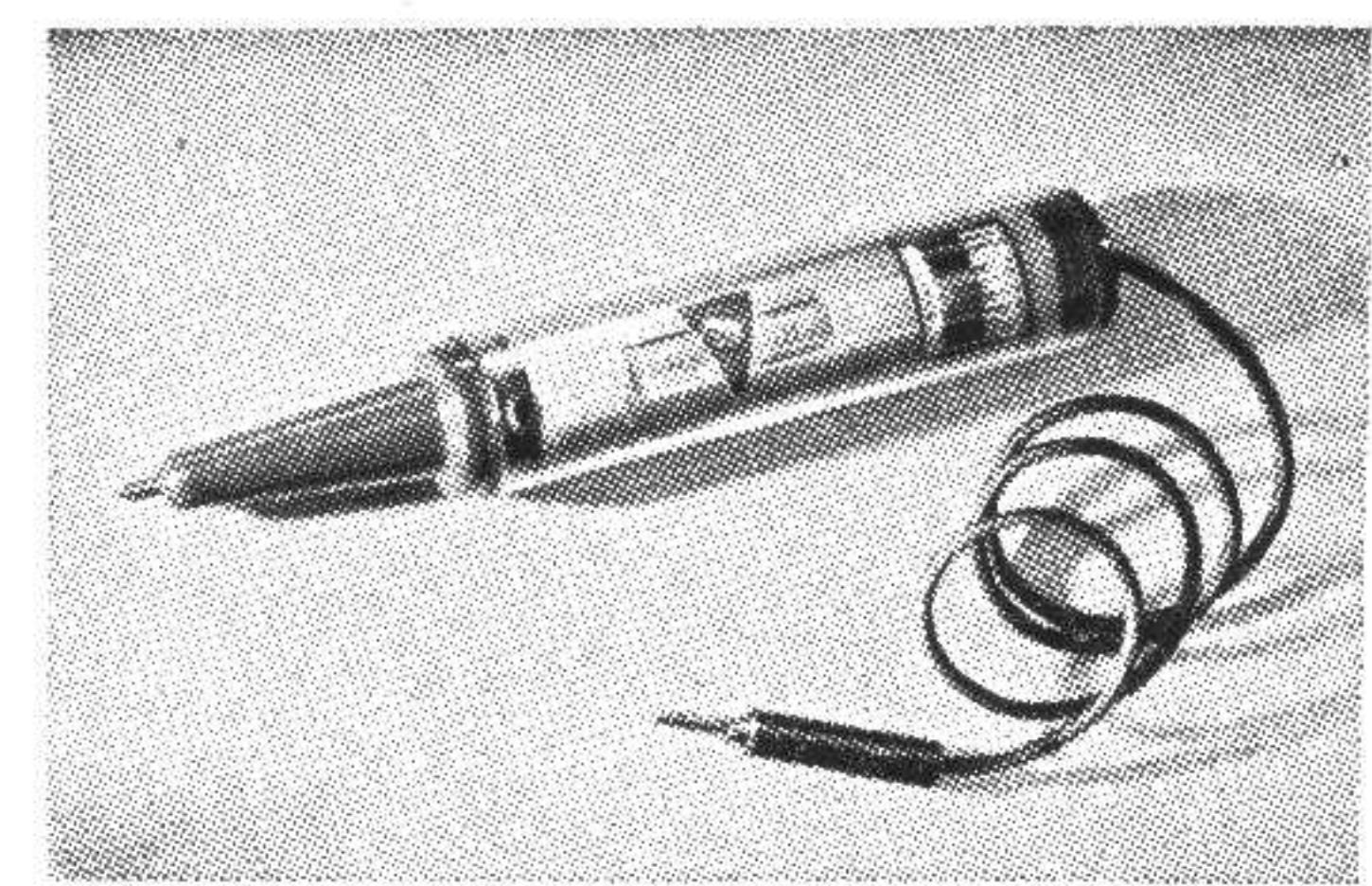
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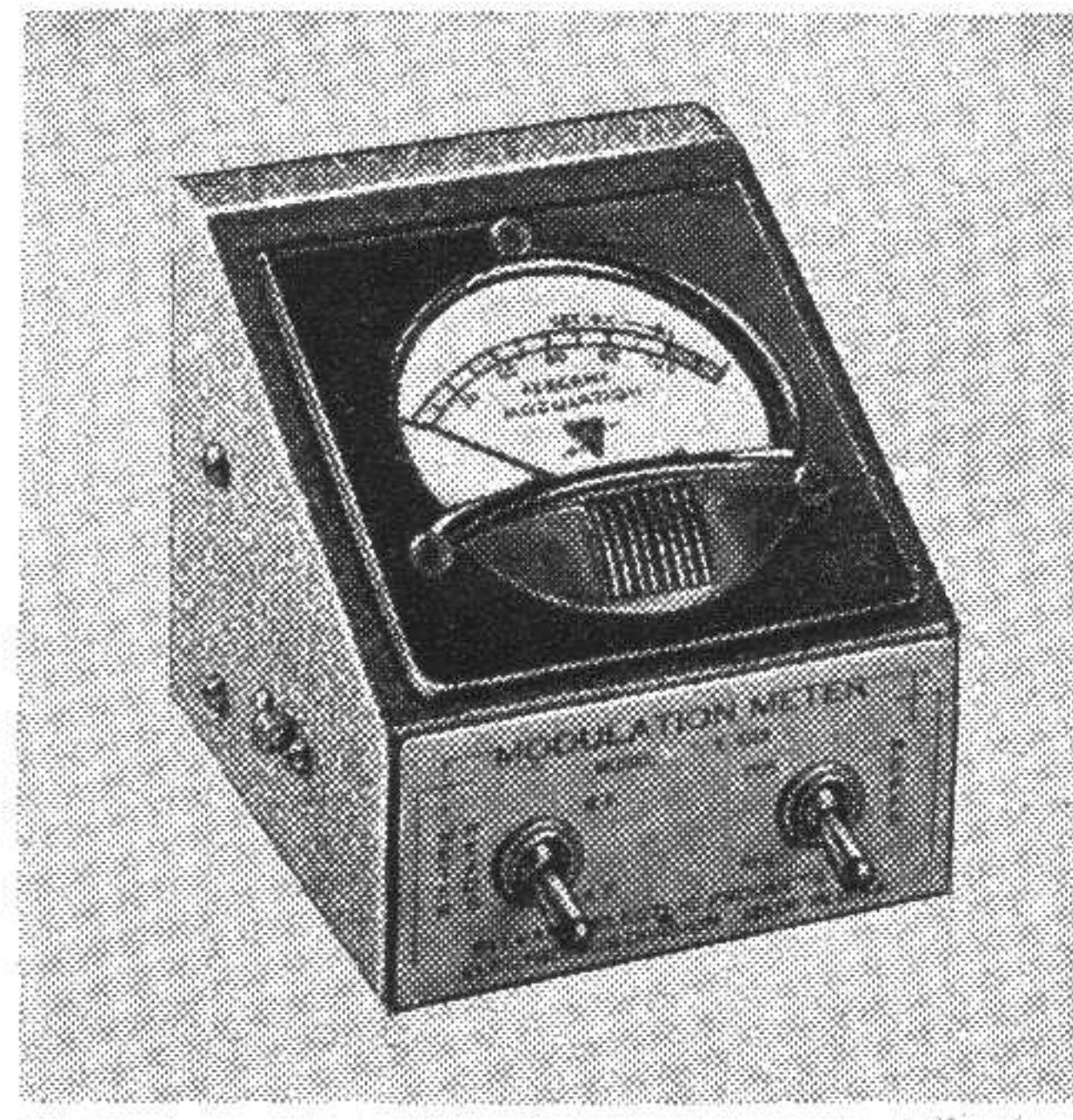
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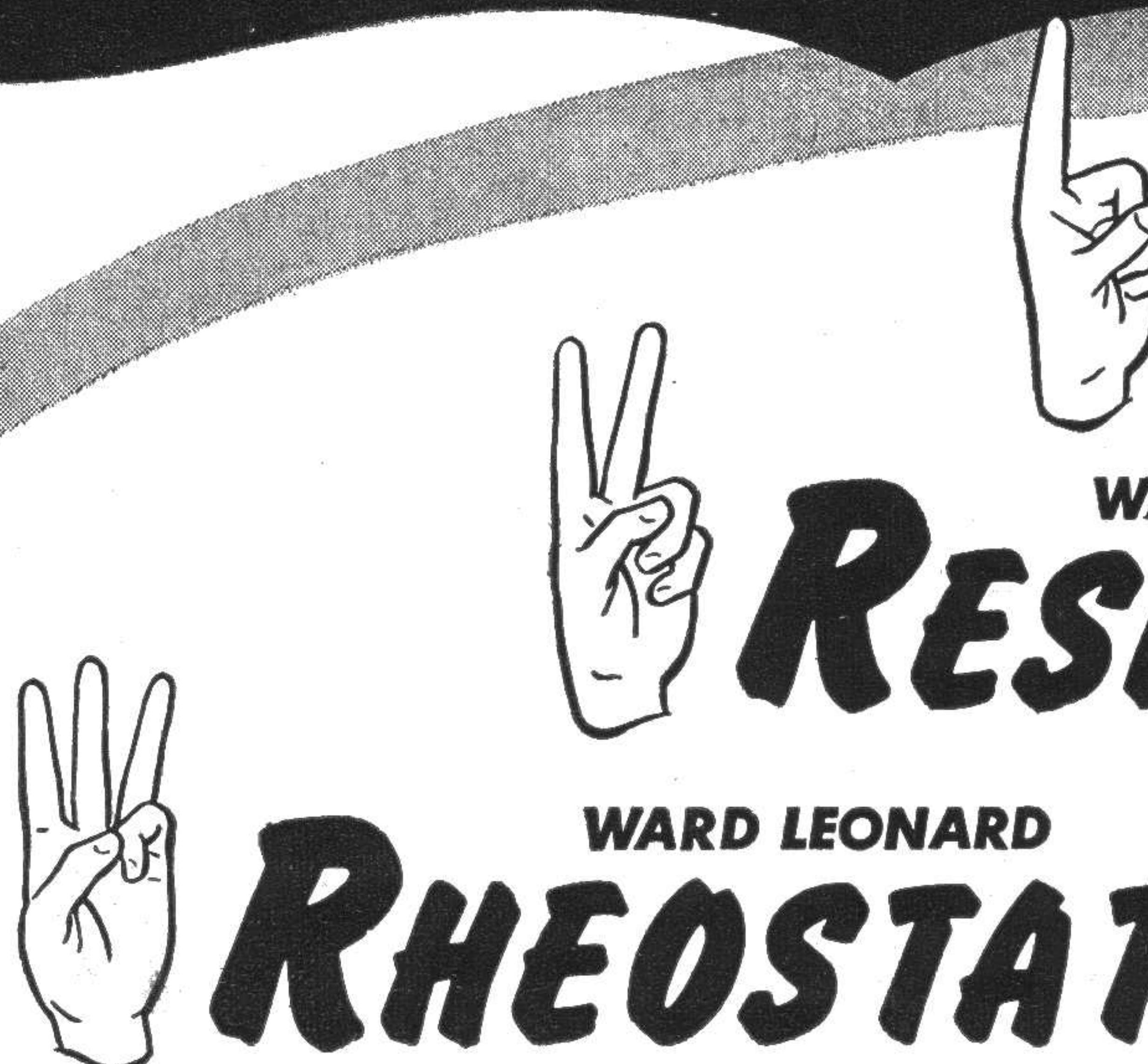
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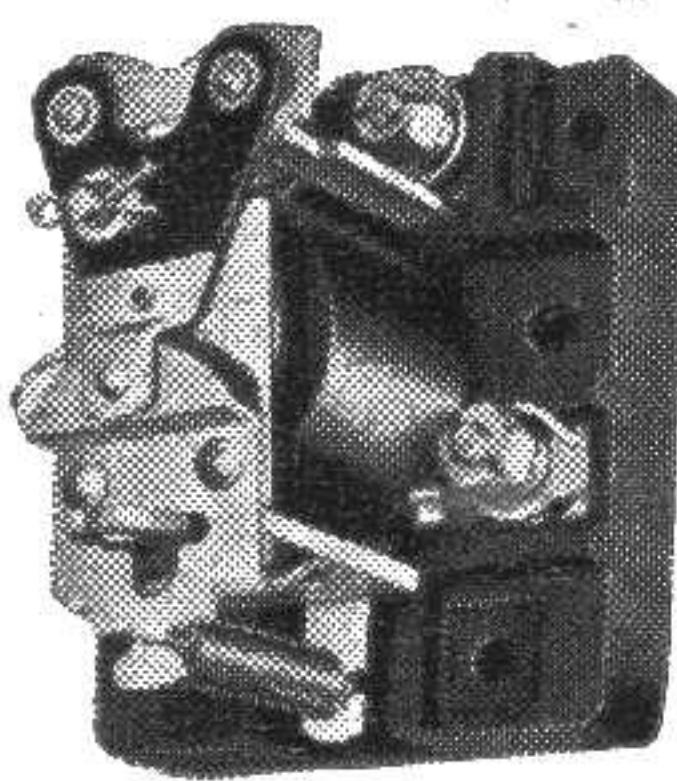
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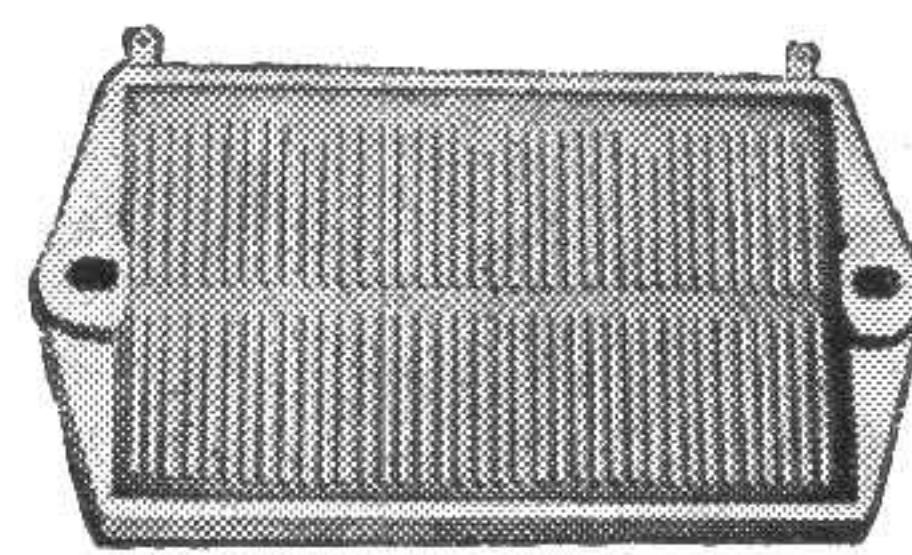
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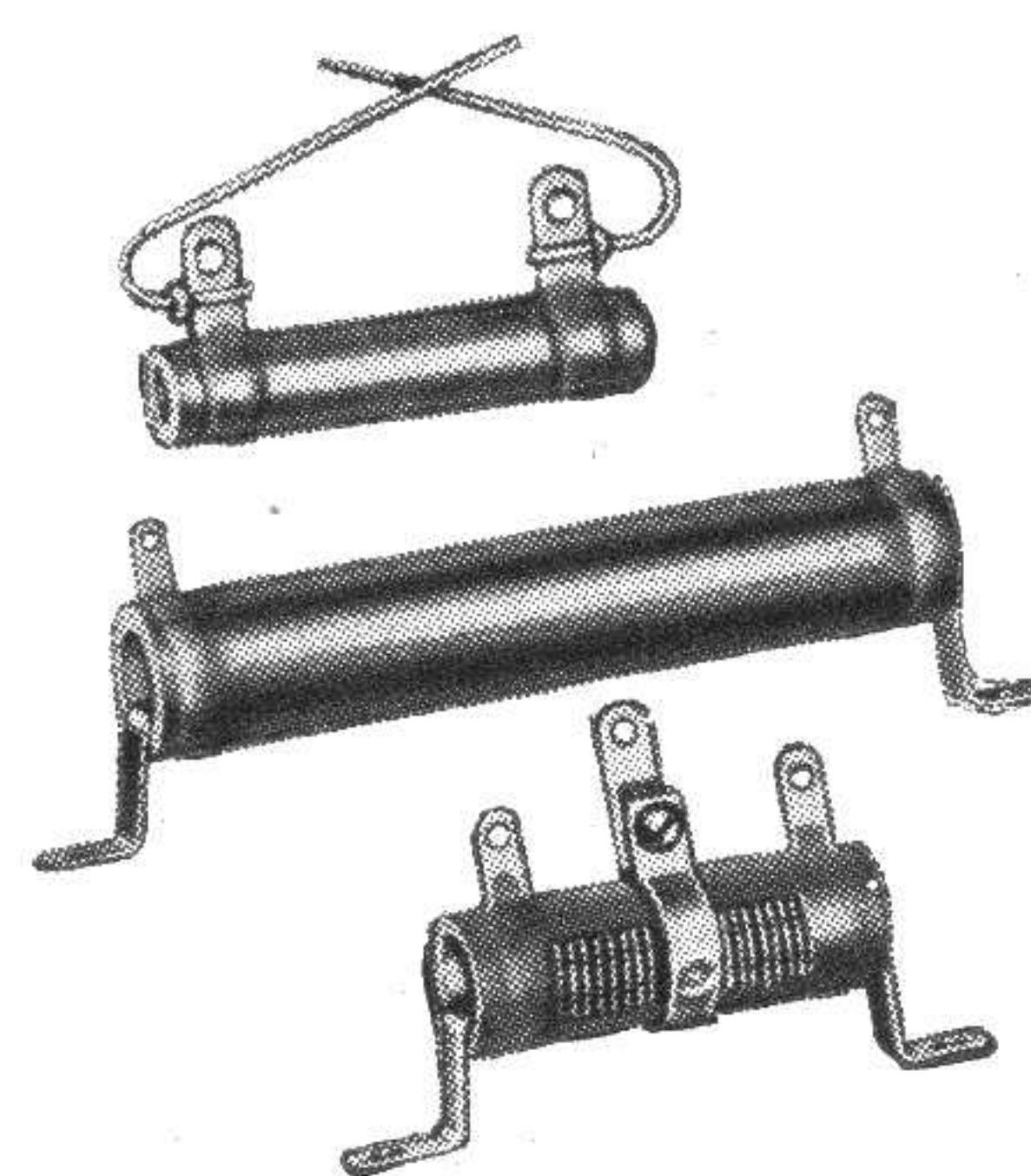
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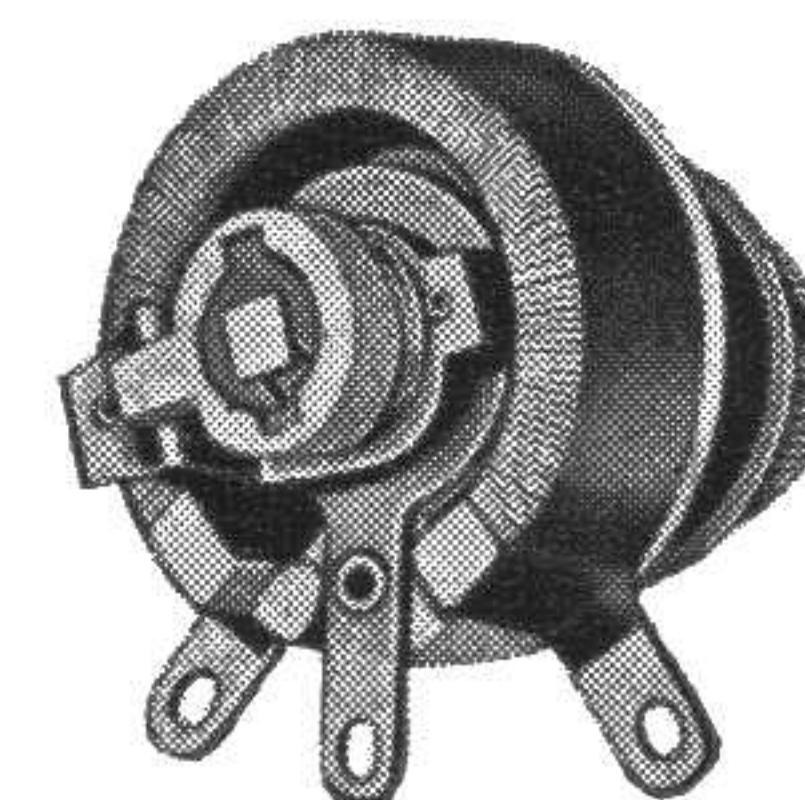
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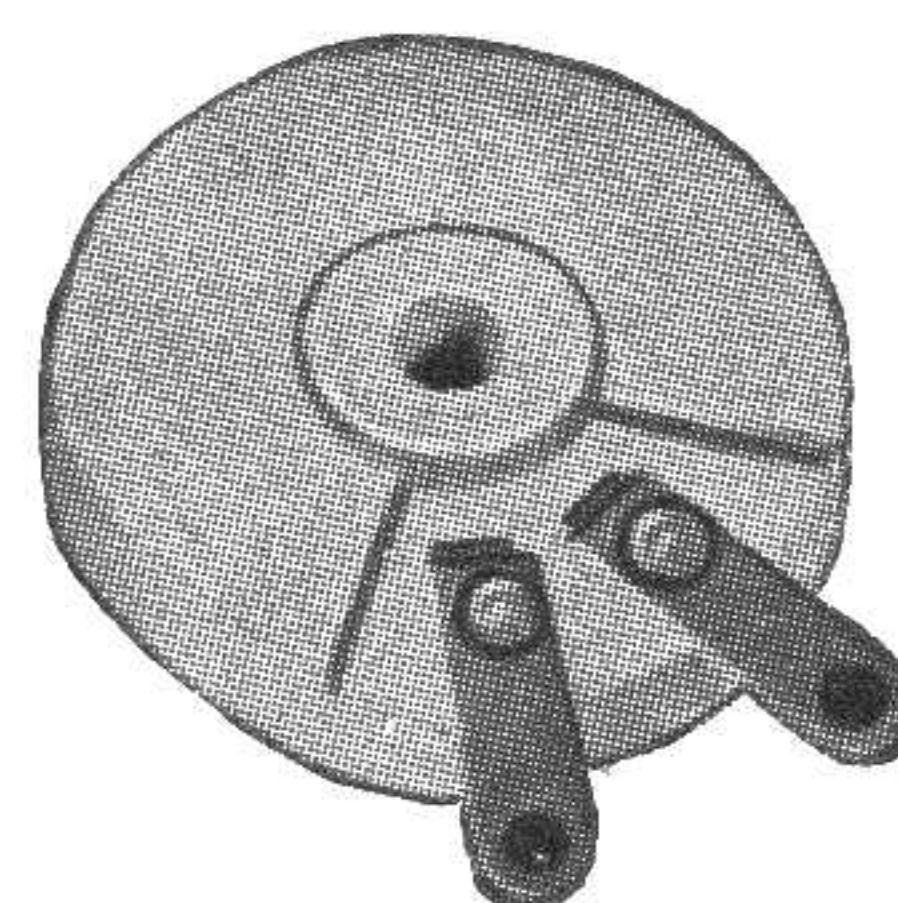
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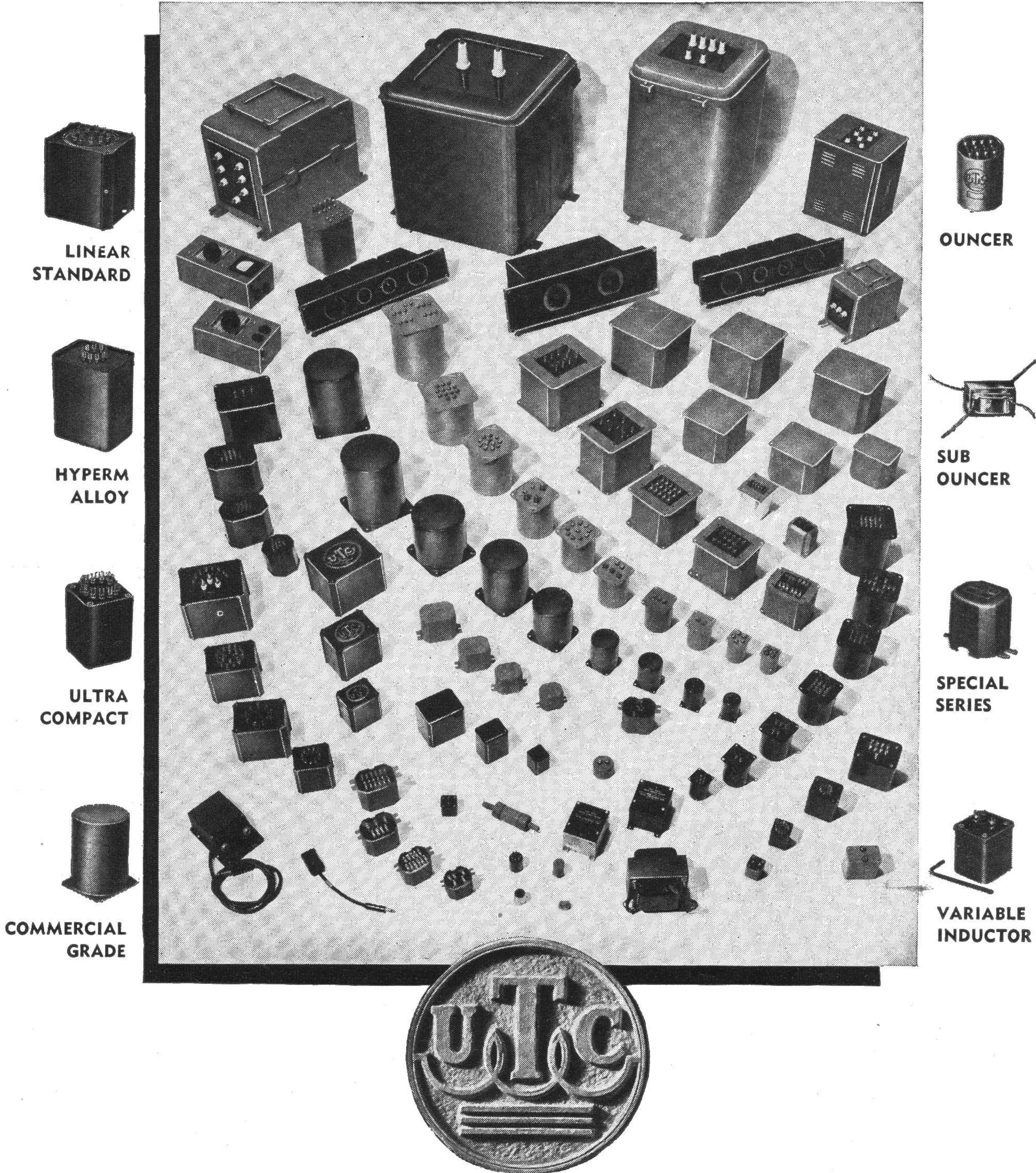
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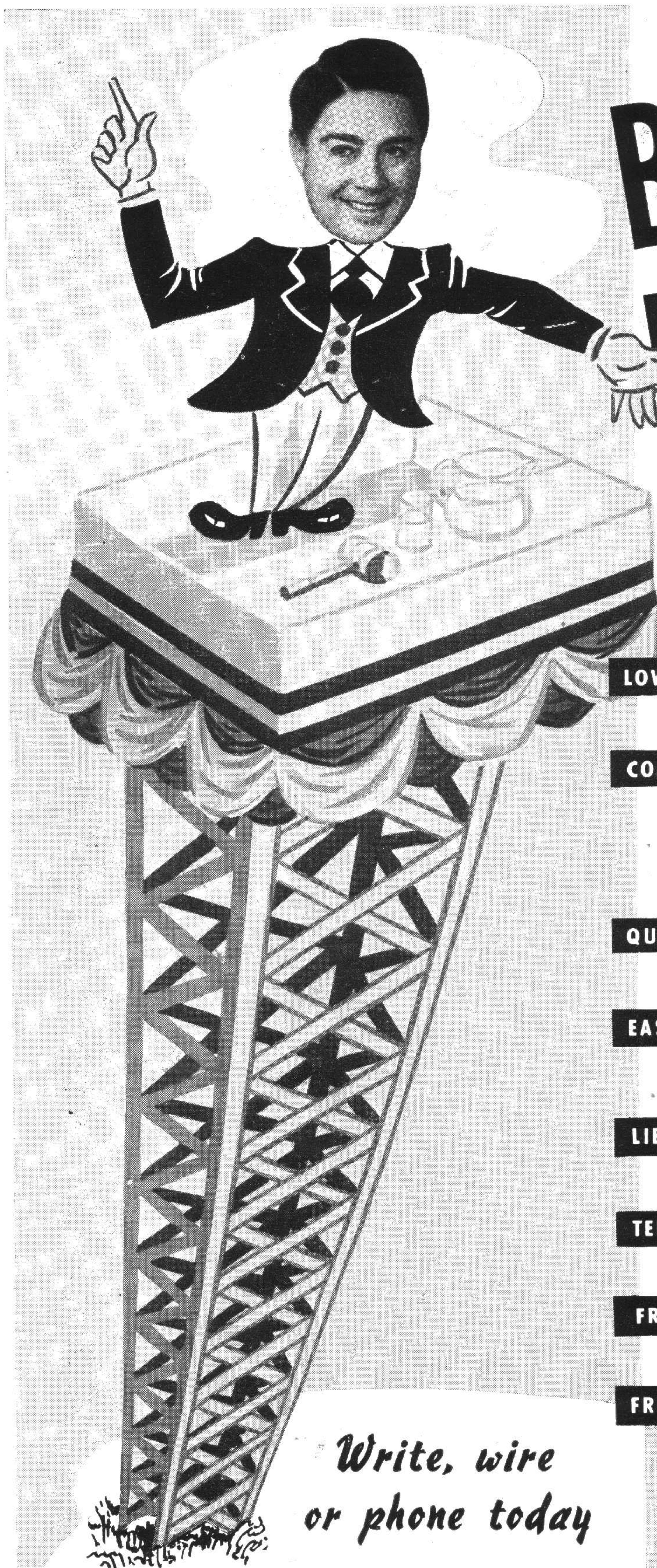
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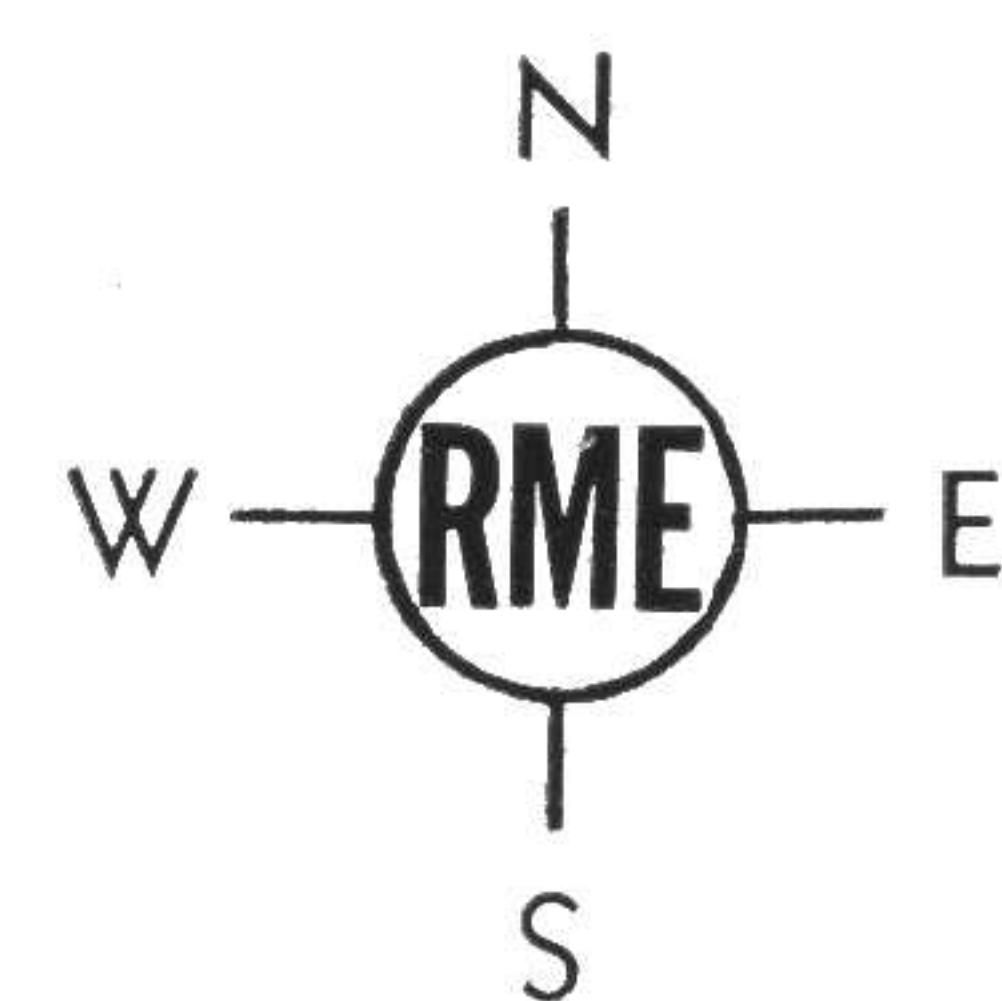
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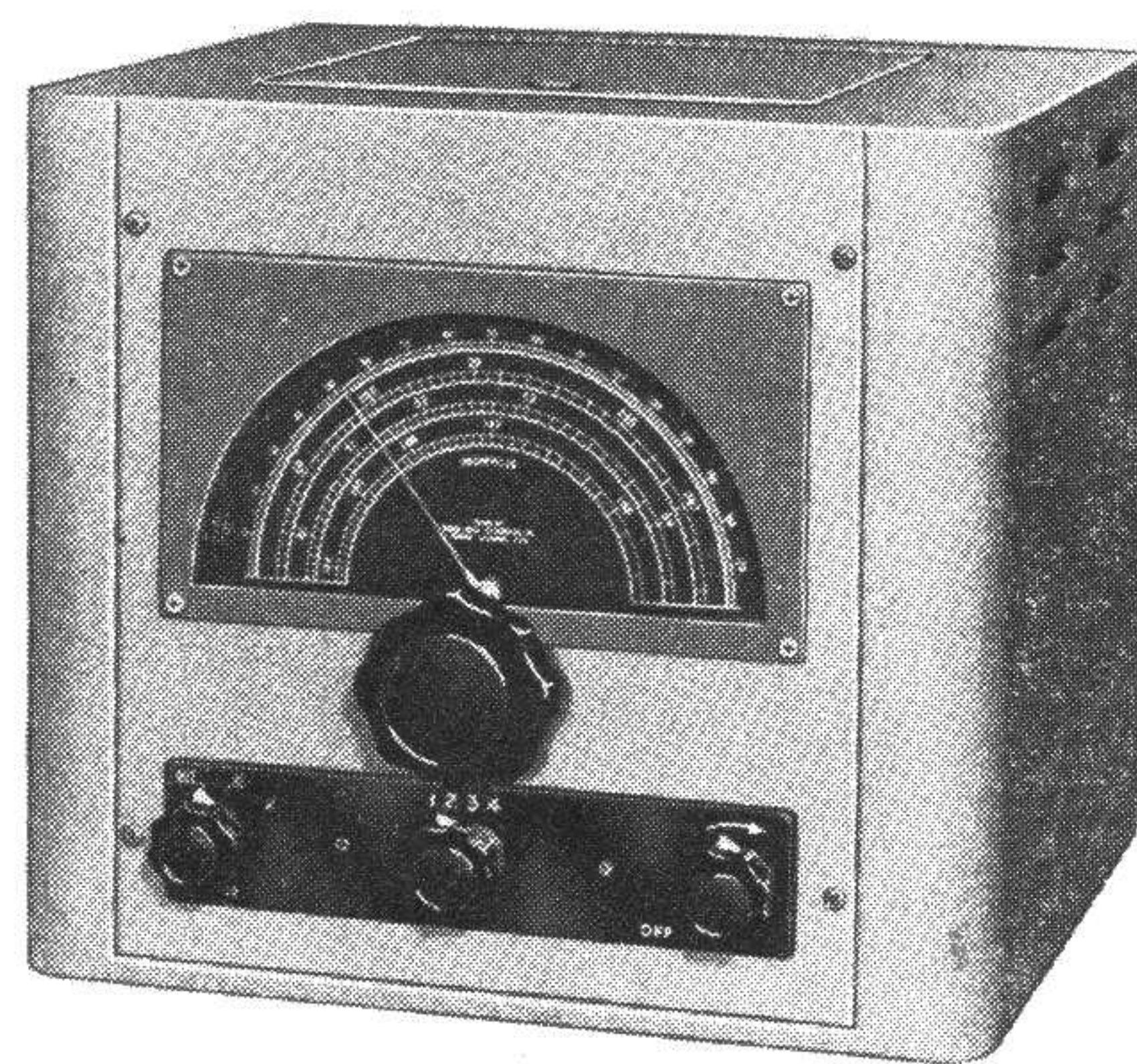
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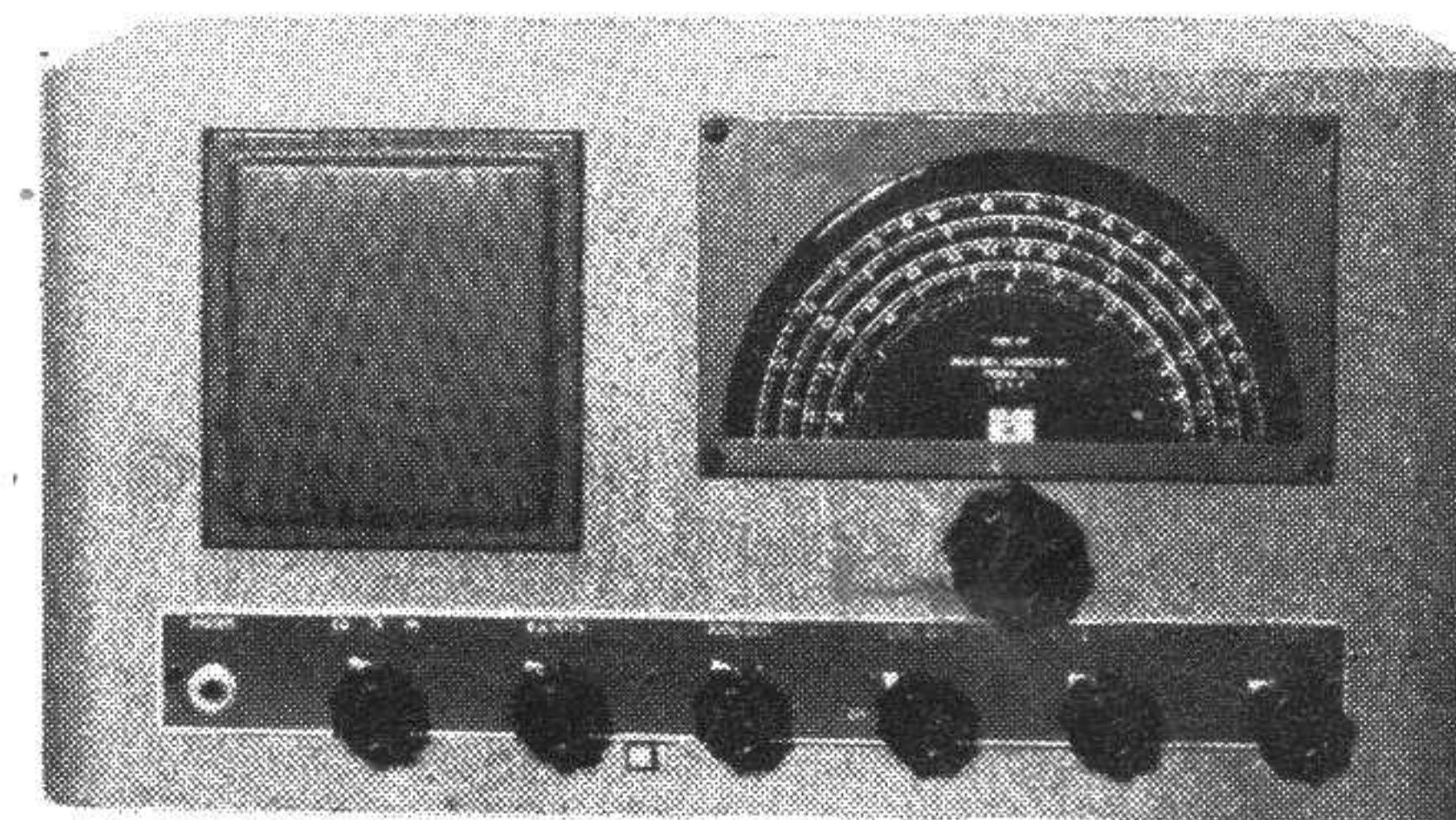
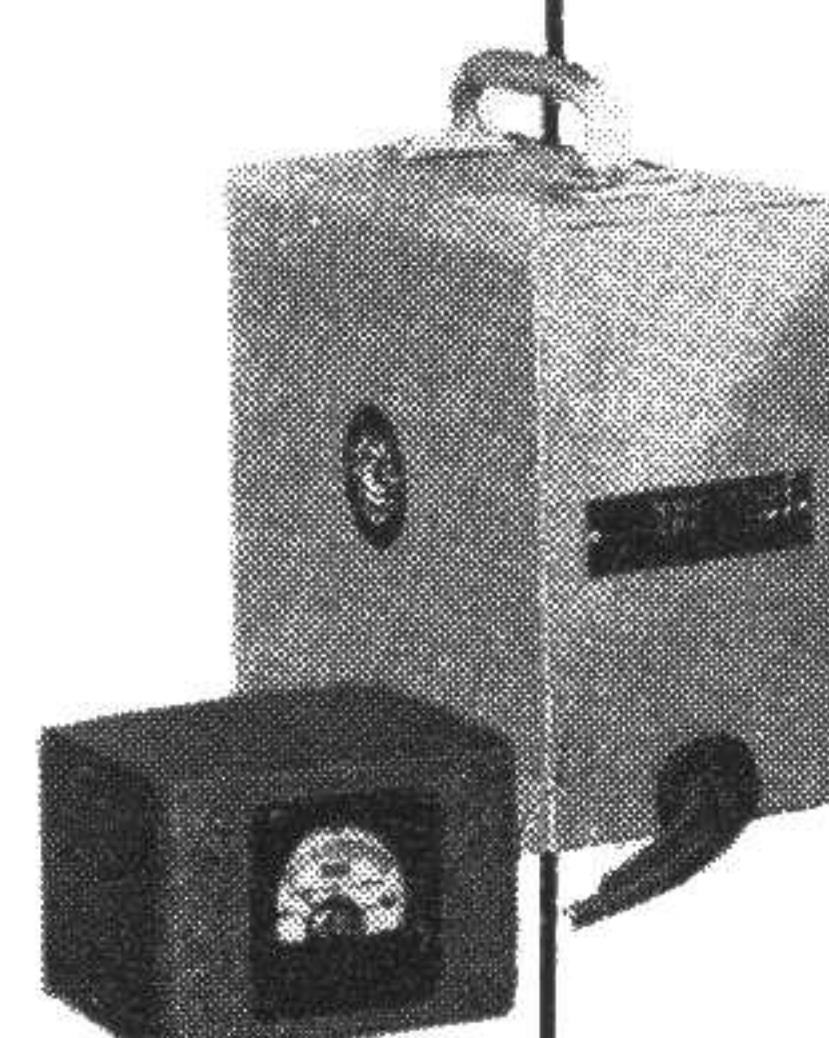
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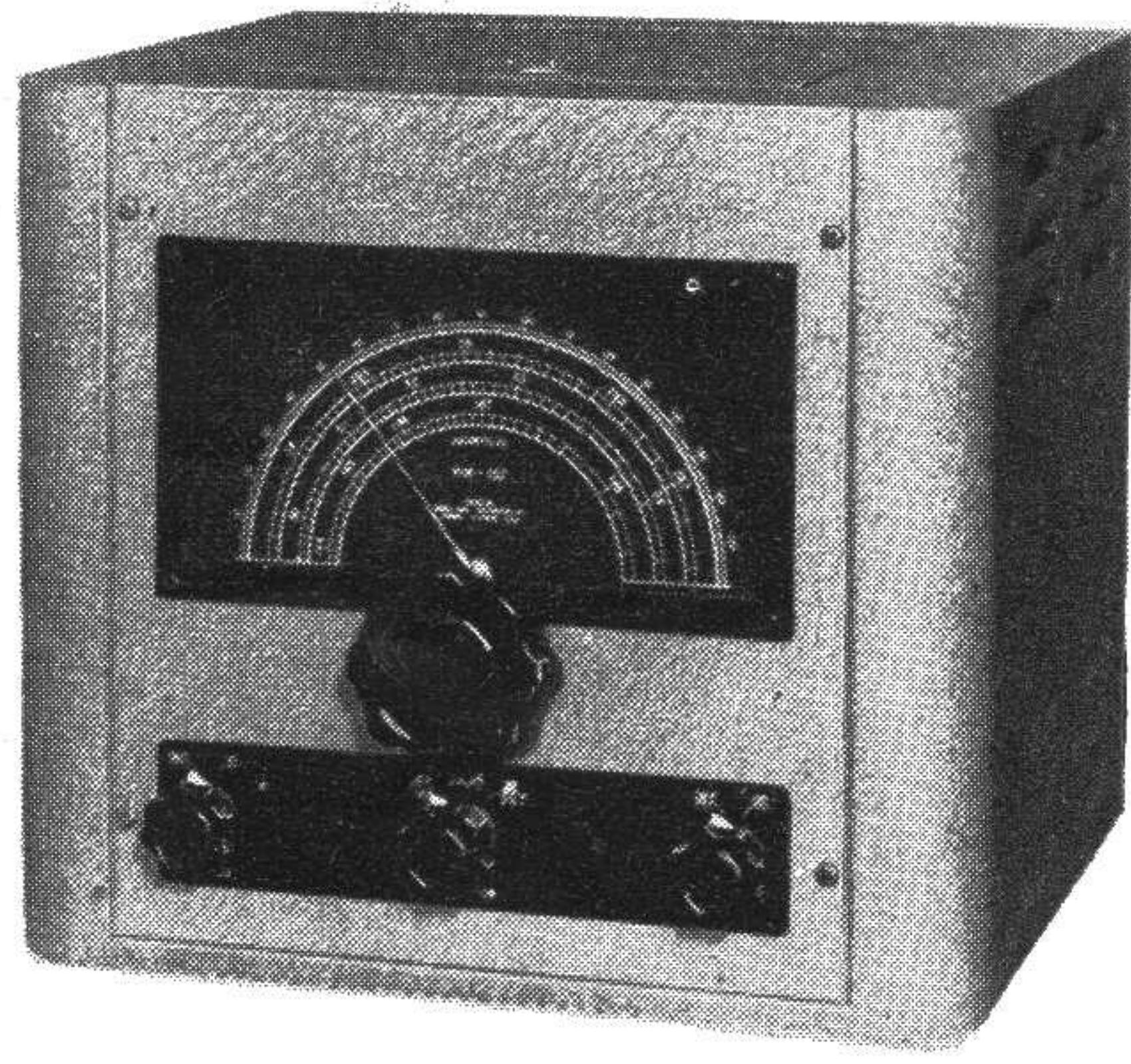
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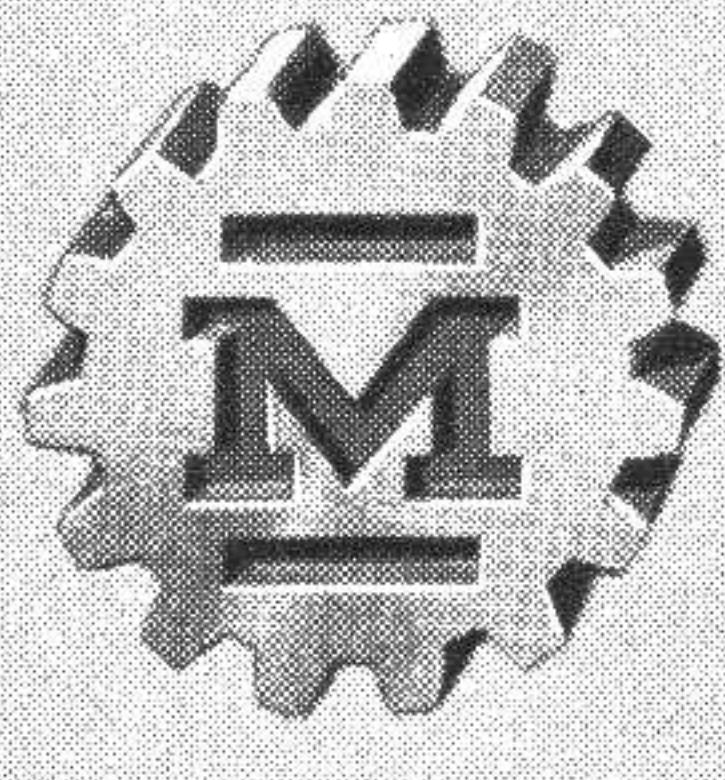
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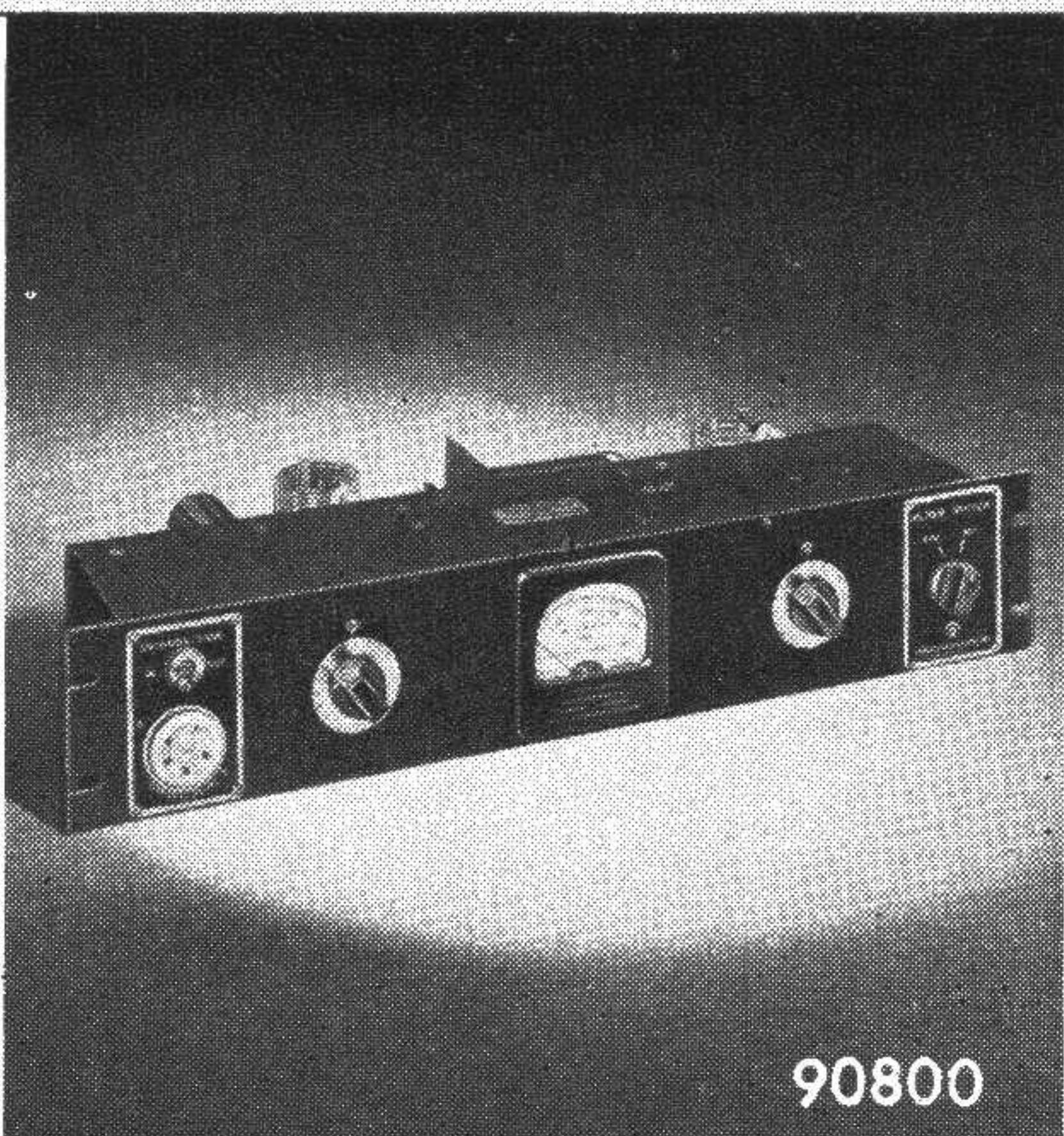
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Application*



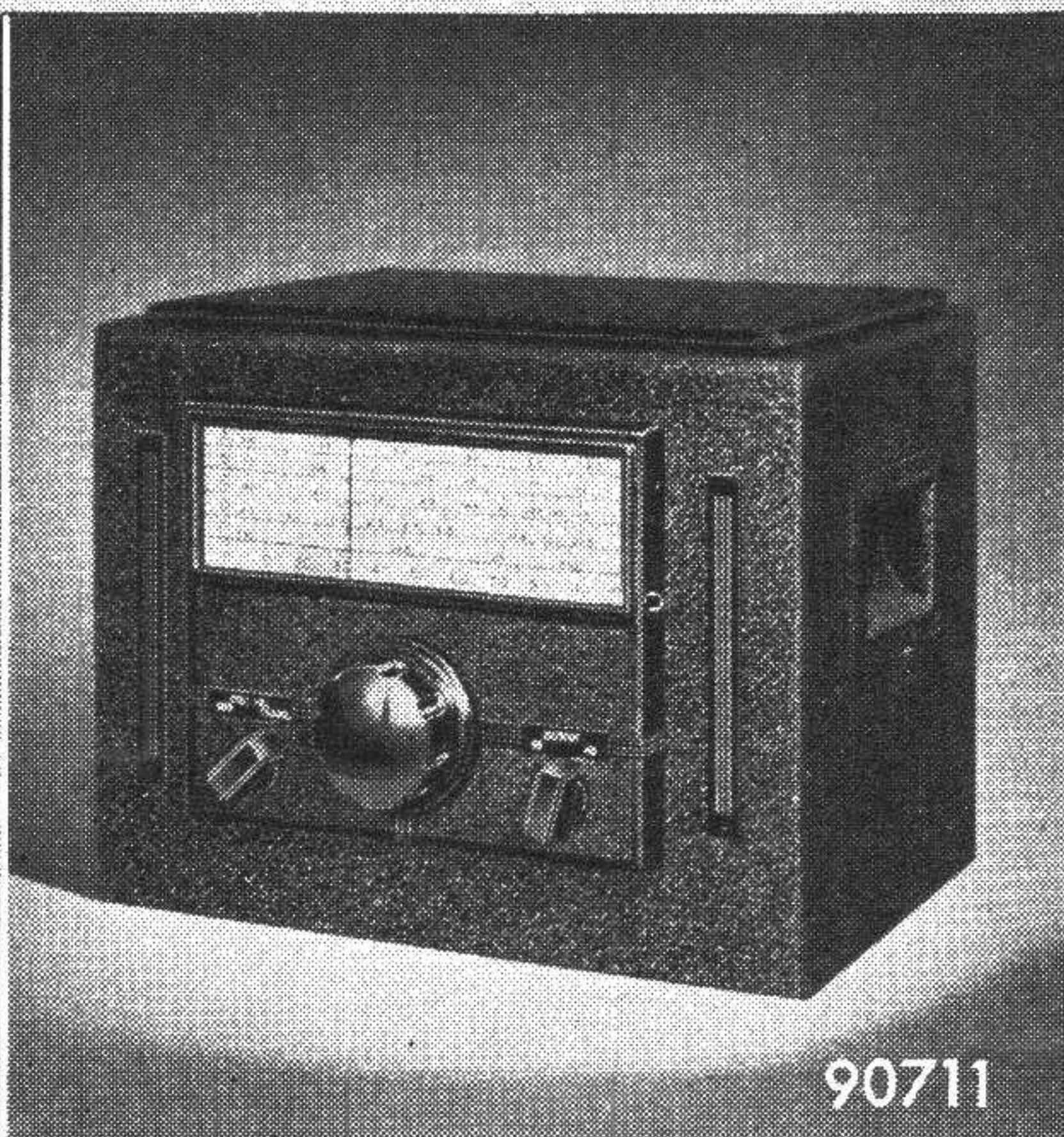
Millen "Designed for Application" components are different! As a designer and manufacturer for many years of complex electronic and communication equipment, we are our own best customer for component parts. Consequently, we have to perform an outstanding job of designing and manufacturing such parts in order to satisfy our own applications. Our parts are "different", also, because as symbolized by the "Gear wheel" of our registered trade mark, they are designed by mechanical engineers working in close cooperation with our electronic circuit group. Below are illustrated a typical half dozen of the many "Designed for Performance" equipments we manufacture from our own component parts.



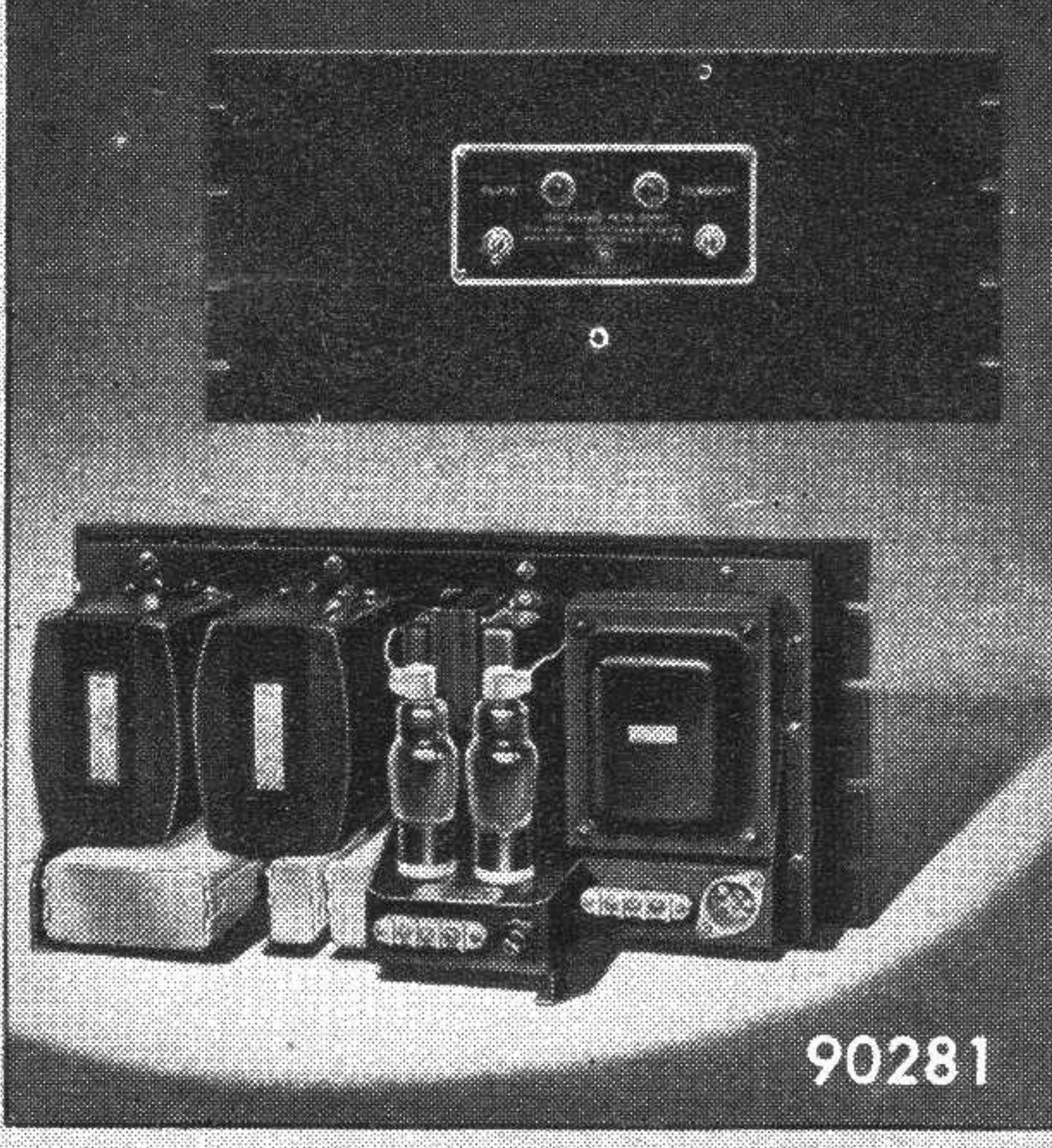
90881



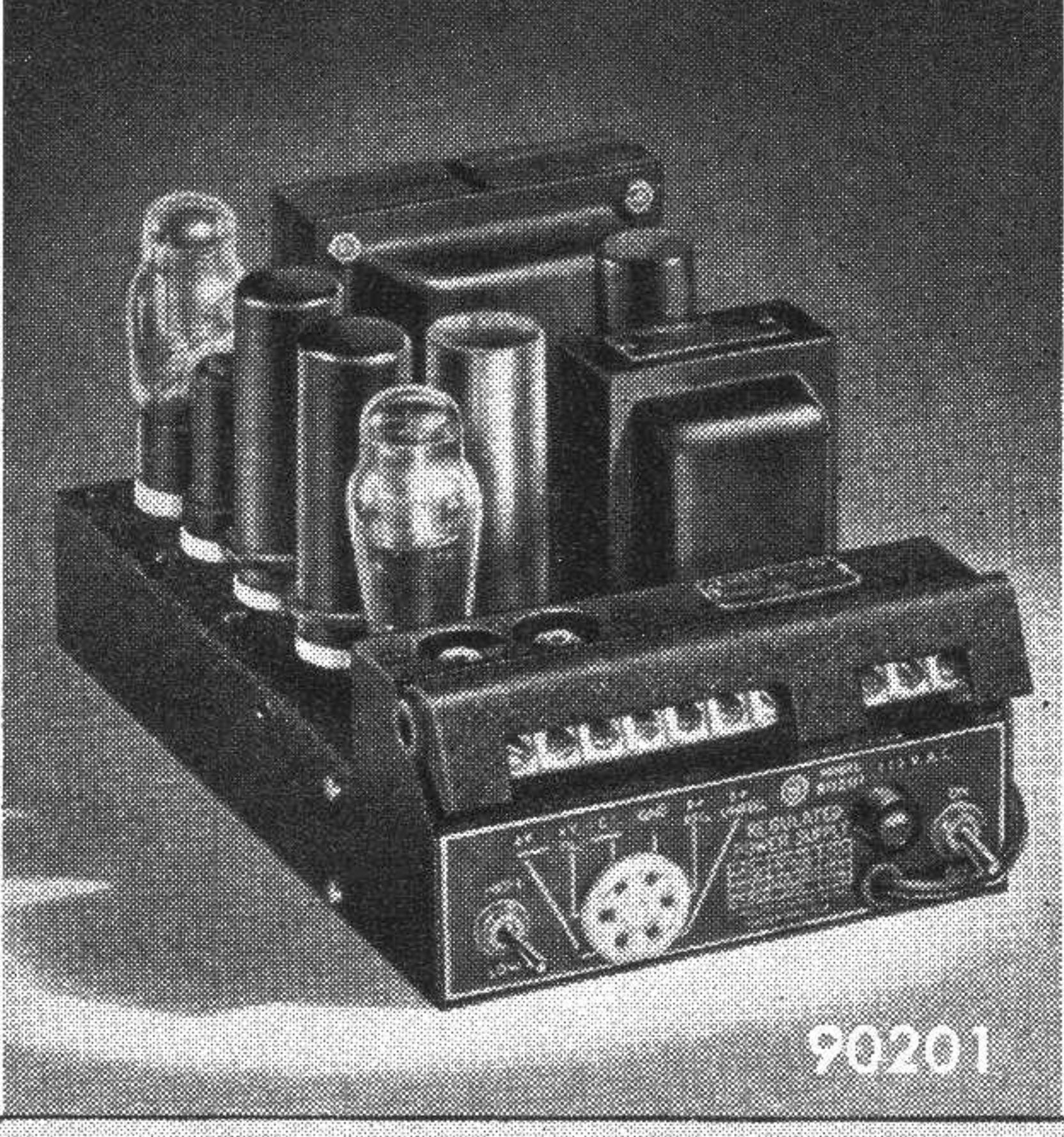
90800



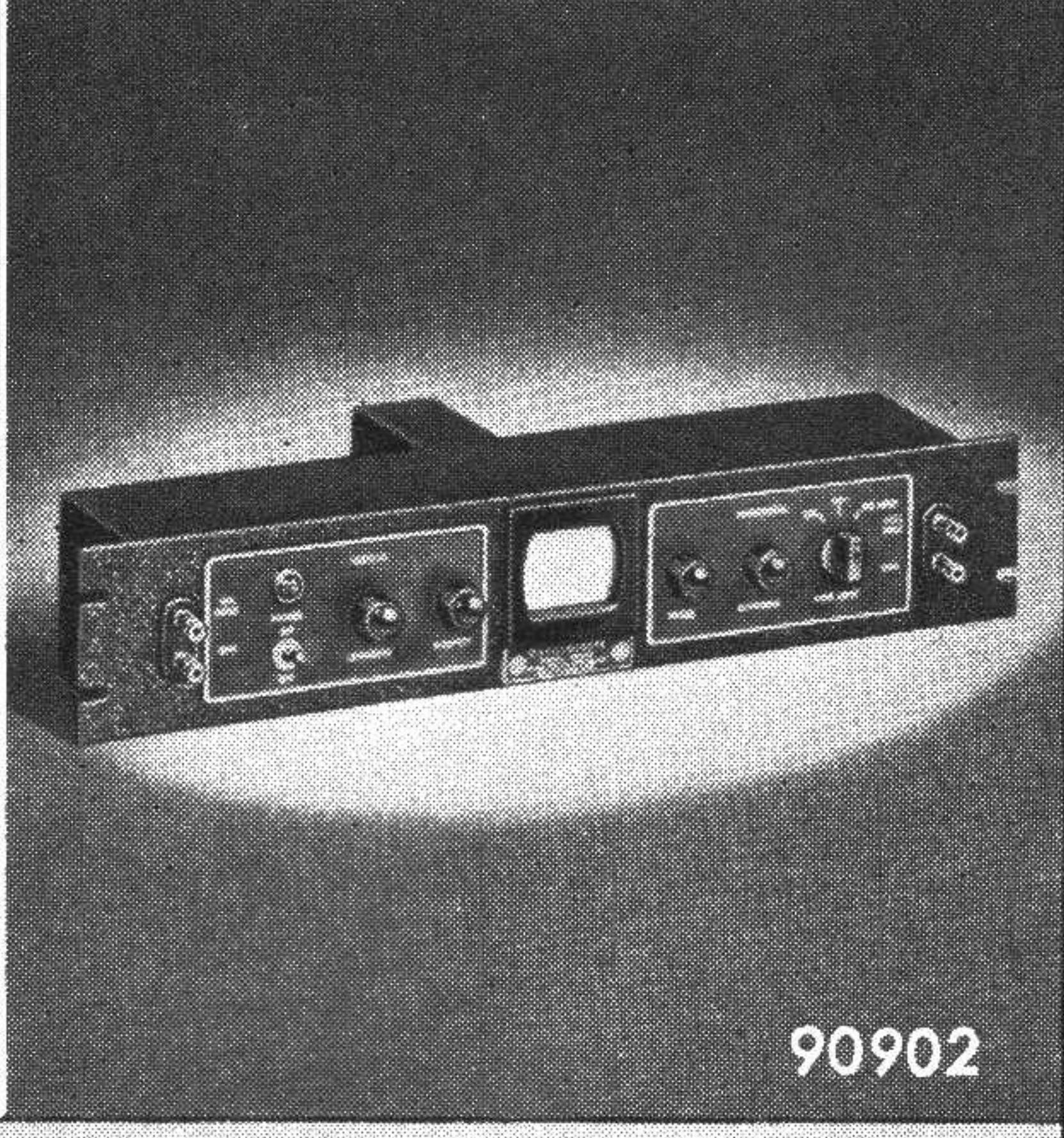
90711



90281



90201



90902

Illustrated above, left to right; Top Row: The No. 90881, 500 watt, RF power amplifier. Plug-in inductors available from stock for all amateur bands and on special order for particular commercial frequencies. The No. 90800 transmitter-exciter. May be used as either an independent 50 watt transmitter or as an exciter for the No. 90881, 500 watt amplifier. The No. 90711 variable frequency oscillator. Bottom row: The No. 90281, 700 volt, 250 MA power supply, the No. 90201 regulated power supply and the No. 90902 cathode ray oscilloscope.

JAMES MILLEN MFG. CO., INC.

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IN ALL

PRINCIPAL CITIES

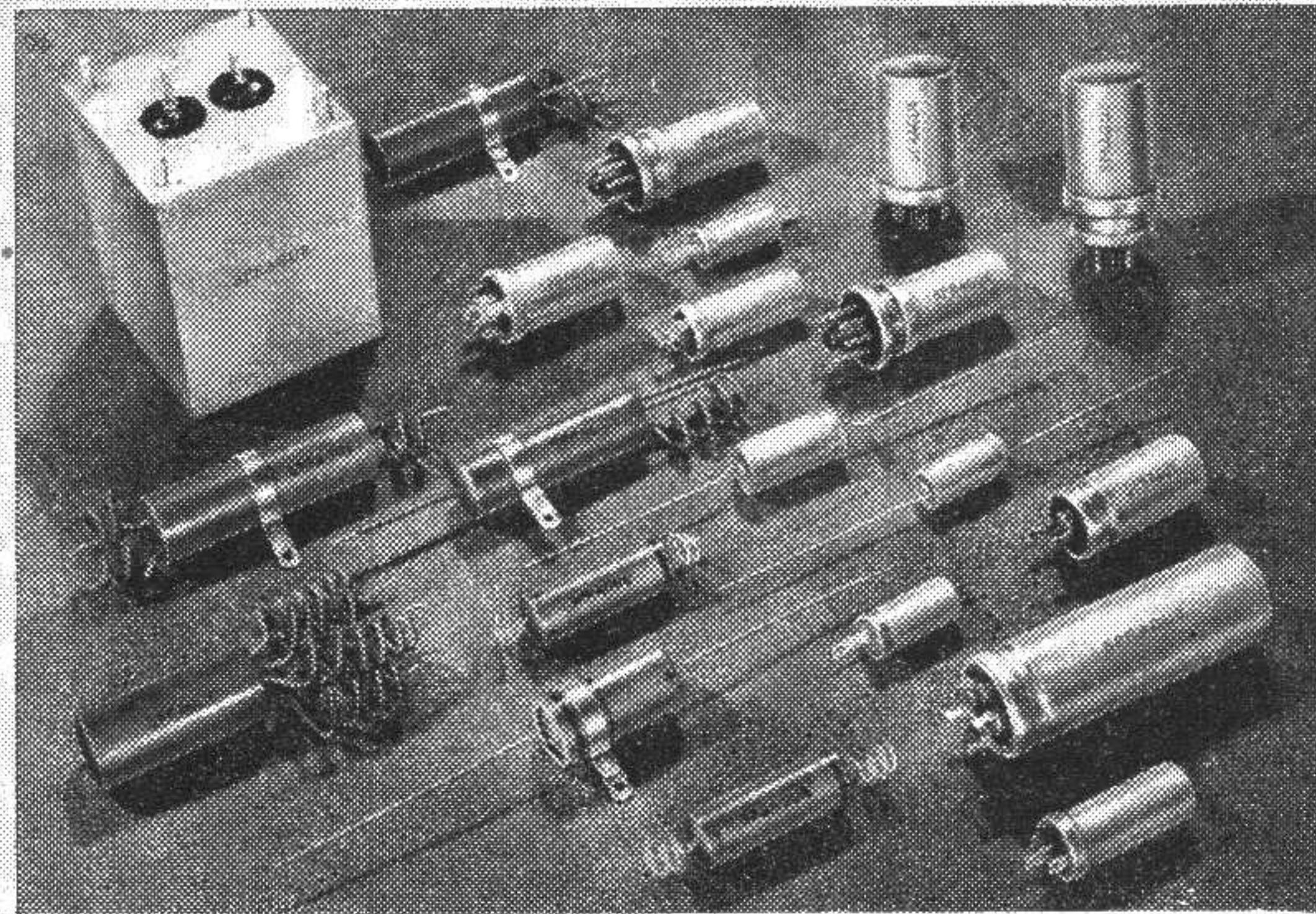
CANADIAN SALES

ASTRAL ELECTRIC CO.

SCARBORO BLUFFS (TORONTO)

Here's Capacitor Dependability!

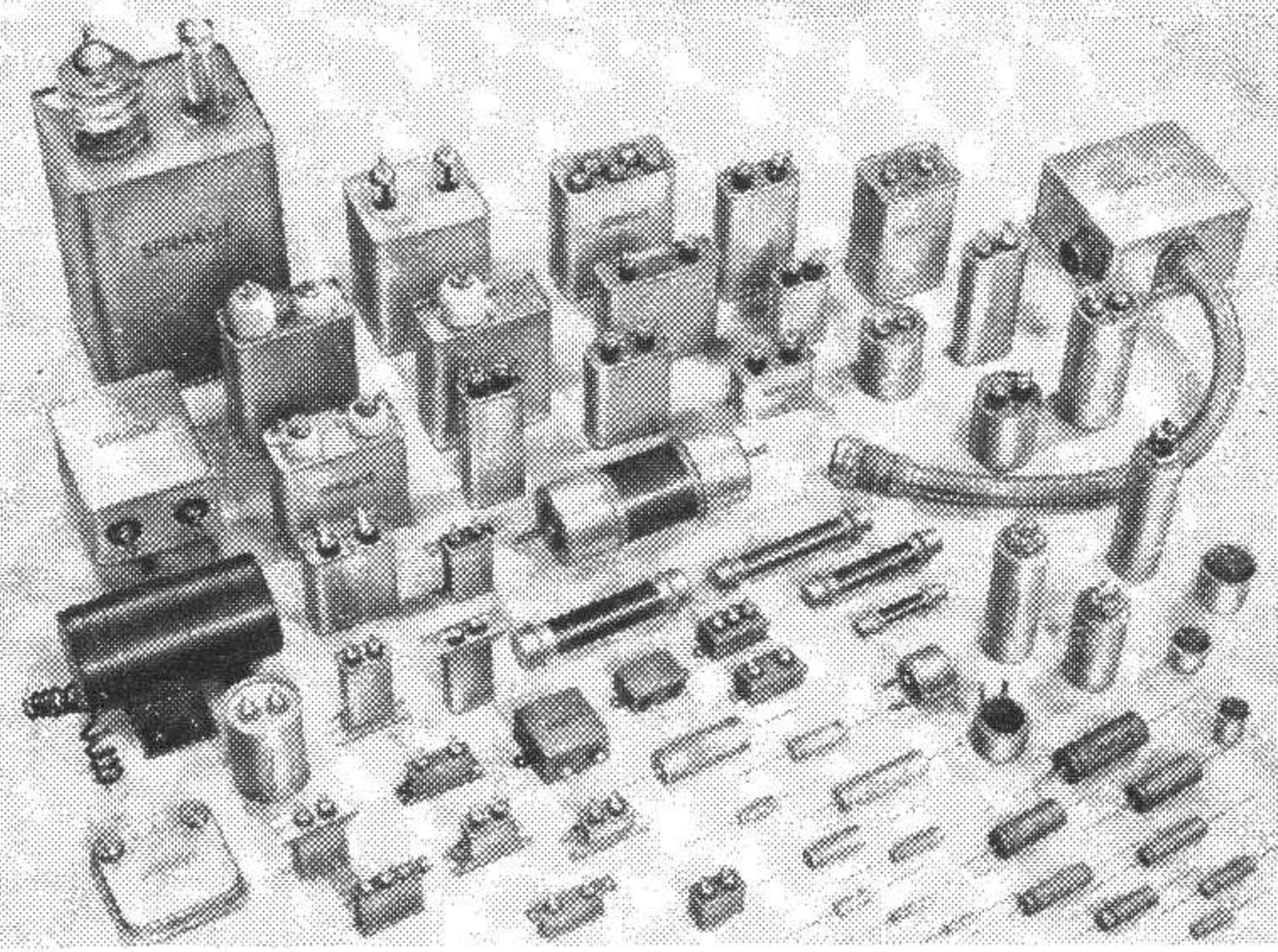
Shown here are a few of more than 9675 capacitor and *Koolohm resistor types that Sprague produces every year. Many of these are for critical industrial applications, others for national defense and ultra-exacting scientific needs.



DRY ELECTROLYTICS

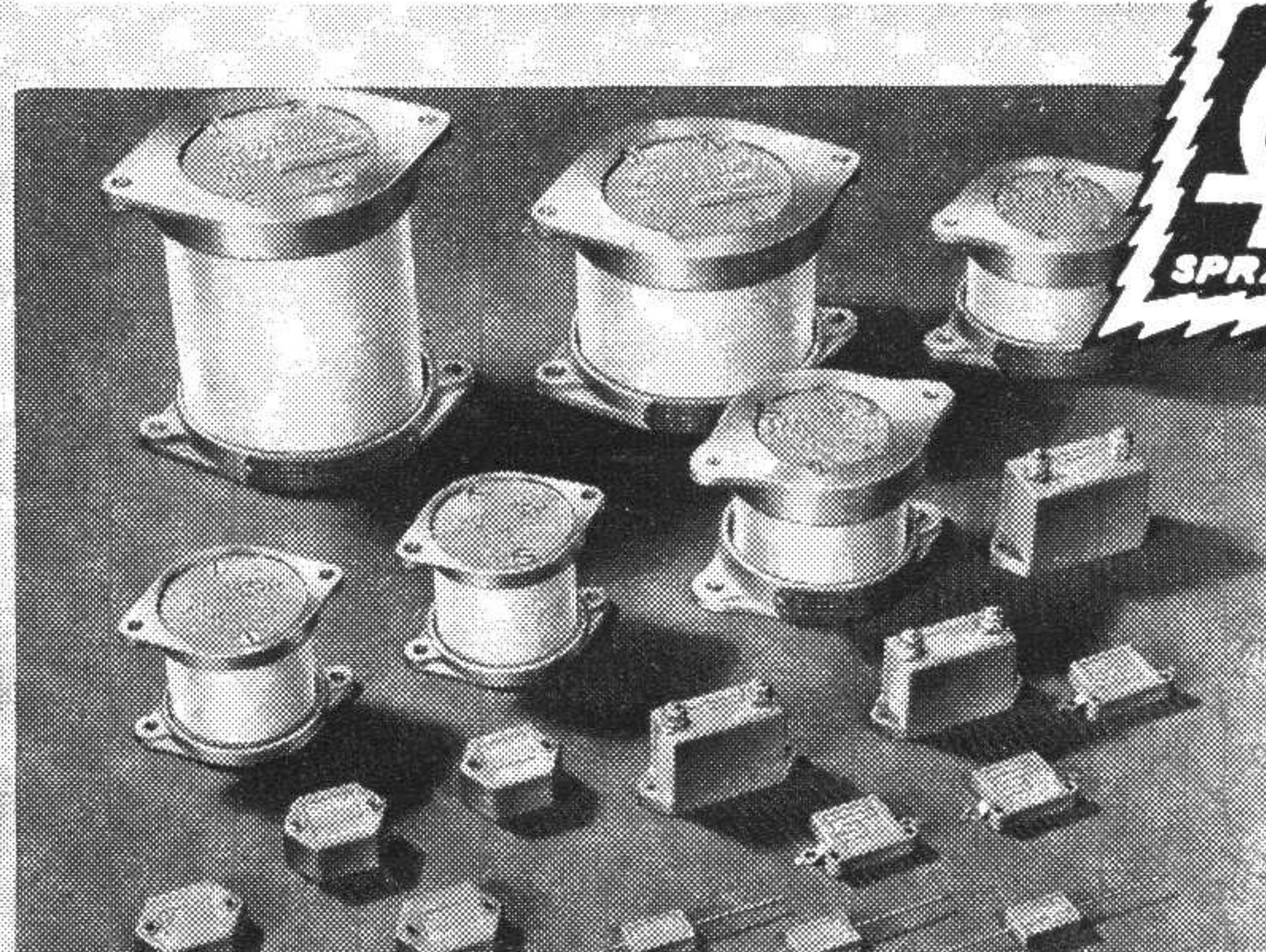
Sprague offers the most diversified dry electrolytic capacitor line ever presented for standard distributor stock. Tiny "Atom" midgets; self-mounting multi-section units; high-capacity, low-voltage tubulars; rectangular and cylindrical shapes; lug, bracket and self-mounting types; terminals and lead connections and many others!

From this vast array come the capacitors that are carefully selected for amateur radio uses—types that mean more for your money because they're better engineered, built more dependably. Catalog on request.



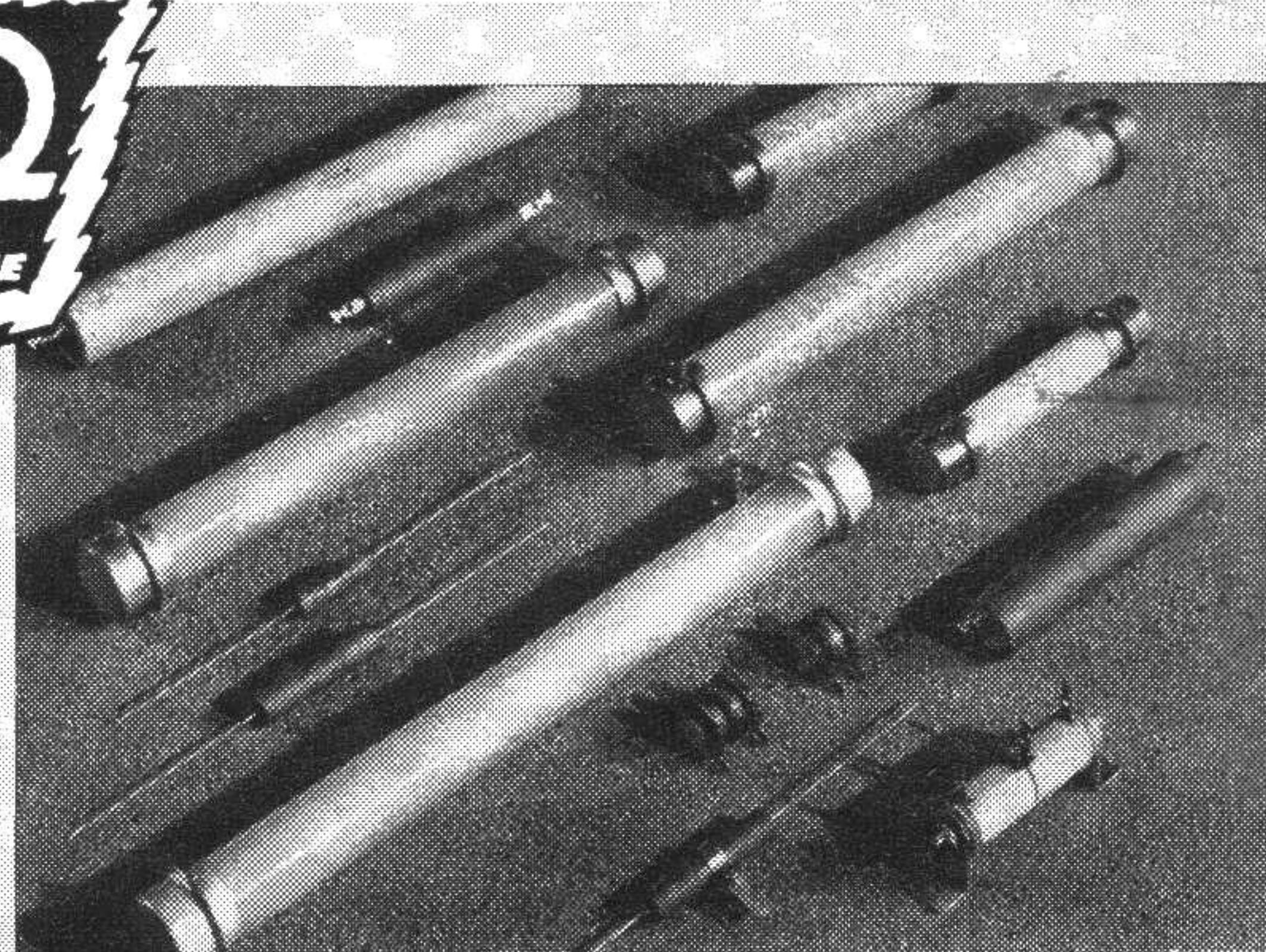
PAPER DIELECTRICS

Standard Sprague paper dielectric capacitors for amateur use include 15 types and over 250 items. Chief among them are three small, popularly priced transmitting types that are both filled and impregnated with *KVO, the exclusive Sprague dielectric. And don't forget the TC Tubular By-pass types—"Not a failure in a million!"



MICA DIELECTRICS

Sprague distributors carry complete stocks of popular mica capacitors including all needed capacities and voltage ratings—in sizes from "postage stamp" silvered micas to high-voltage ceramic-jacketed units. All provide maximum quality for R-F applications where low power factor and high insulation resistance at high frequencies are essential.



*KOOLOHM RESISTORS

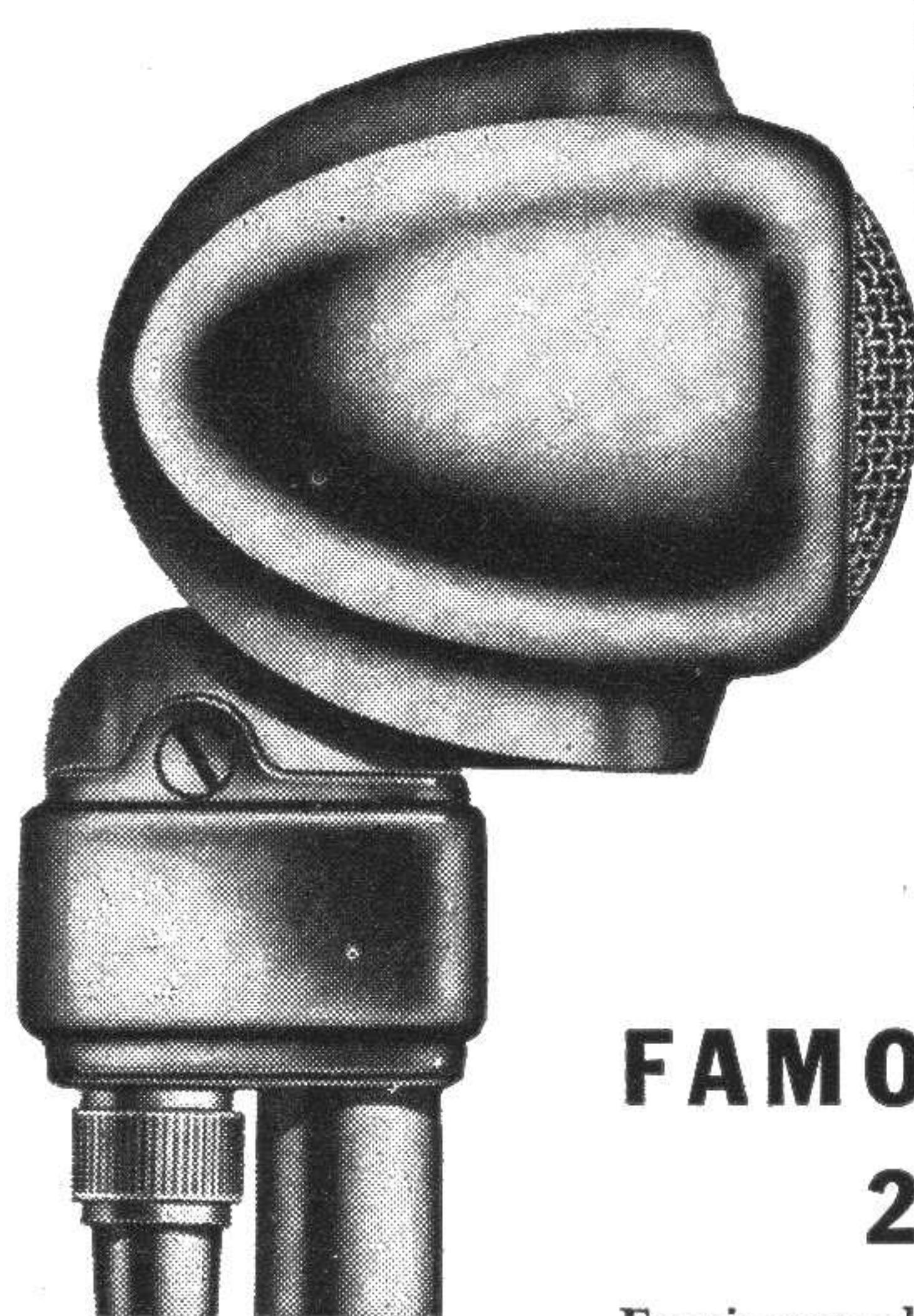
Sprague Koolohm Resistors are wound with wire insulated before winding with a flexible ceramic coating that is impervious to heat as high as 1000° C. Doubly protected by glazed ceramic shells and moisture resistant seals. Insulated for 10,000 volts resistance breakdown to ground. Larger, sturdier wire sizes in smaller resistors. Use Koolohms at full wattage ratings—anywhere!

*Trademarks Reg. U. S. Pat. Off.

SPRAGUE

PIONEERS OF ELECTRONIC AND ELECTRICAL PROGRESS
SPRAGUE PRODUCTS COMPANY, NORTH ADAMS, MASS.

Jobbing distributing organization for products of Sprague Electric Co.



THE PASSWORD TO SOUND PERFORMANCE

Microphones BY TURNER

FAMOUS TURNER 22X-22D

Engineered for smooth response to both voice and music pick-ups. Choice of crystal or dynamic circuits. 22X Crystal has built-in wind-gag permitting outdoor operation. Crystal impregnated against moisture and protected against changes in barometric pressure. Level: 52db below 1 volt/dyne/sq.cm. Response: Flat within ± 5 db from 50 to 9000 c.p.s. 22D Dynamic has high level dynamic cartridge. Dependable indoors or out. Response: Flat within ± 5 db from 50 to 9000 c.p.s. Level: 54db below 1 volt/dyne/sq.cm. In 50, 200, 500 ohms or high impedance. Both models equipped with 90° tilting head and 7 ft. removable cable set.

NEW, IMPROVED VT-73 DESK MICROPHONE



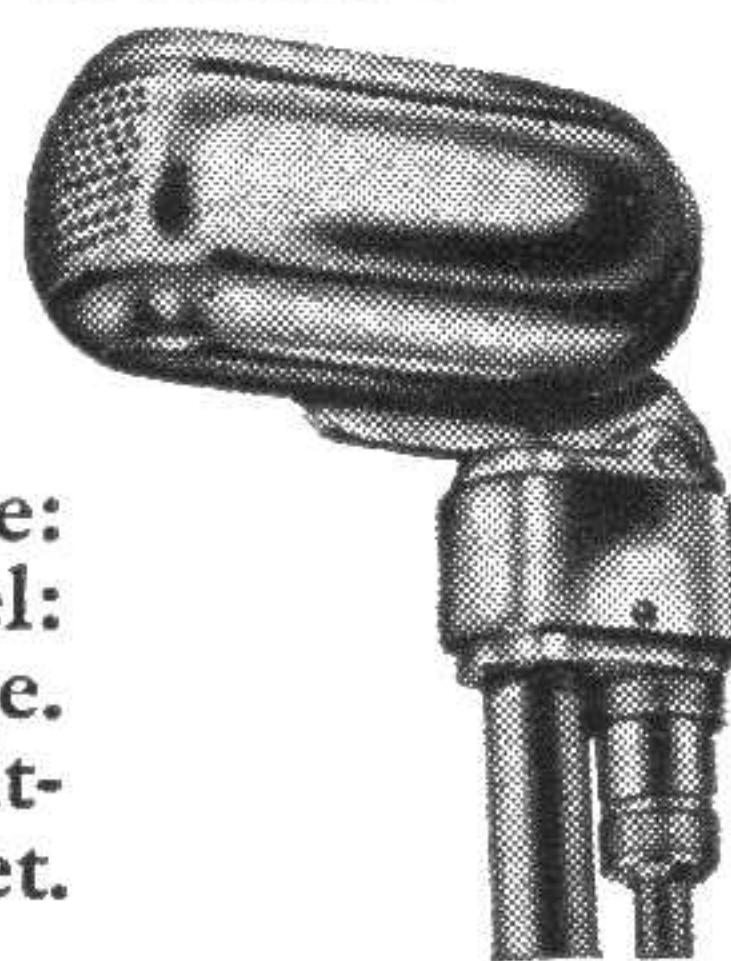
Here's a dependable unit for clear, crisp results. Stepped up in both performance and styling. The new Turner VT-73 increases intelligibility at voice frequencies without over-modulation. Engineered especially for Quality speech recording, public address, and amateur use with *rising curvature of response* between 500-4000 cycles. High quality moisture proofed crystal. Level: 52db below 1 volt/dyne/sq.cm. Response: 50-7000 c.p.s. Finished in black crinkle and chrome. Complete with ball swivel head, stand and 7 ft. cable.

A WORLD WIDE FAVORITE WITH PROMINENT AMATEURS FOR QUALITY REPORTS

For microphones you can depend upon for clear, sharp communications Turn to Turner—the *password to sound performance*. Precision engineered of finest materials Turner Microphones are built to stand up and deliver under the most difficult service conditions. To thousands of radio amateurs there's no mike like a Turner—the leader in style, in dependability, in performance.

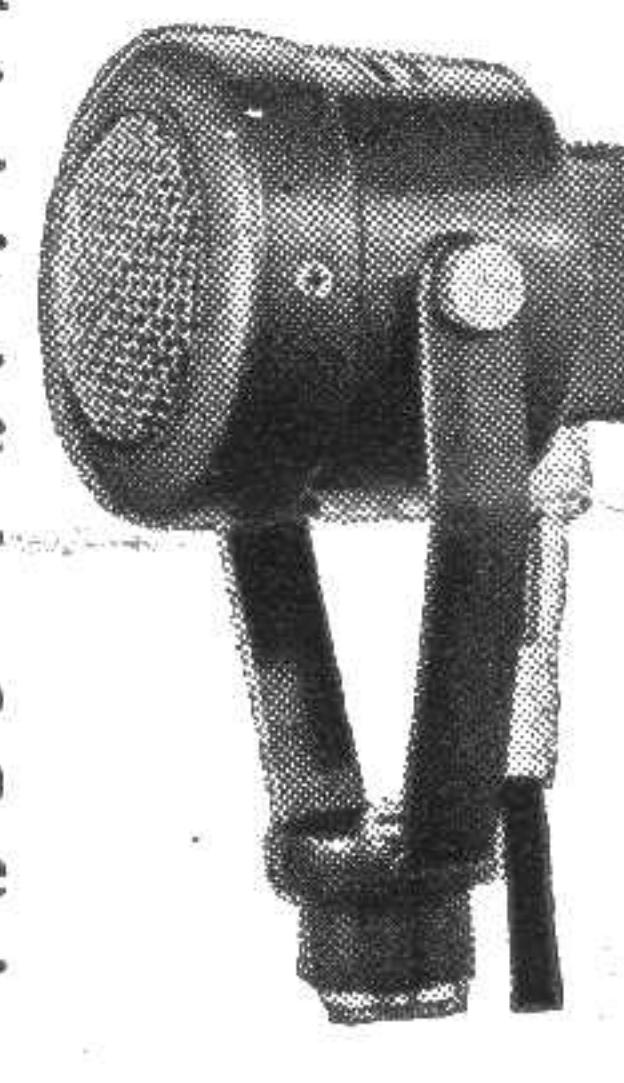
MODEL 211 BROADCAST QUALITY DYNAMIC

Engineered for highest quality recording, P.A., sound system and broadcast work. Utilizes new type magnet structure and acoustic network. Unique diaphragm structure design provides extremely low harmonic and phase distortion without sacrifice of high output level. Response: Flat within ± 5 db from 30-10,000 c.p.s. Level: 54db below 1 volt/dyne/sq.cm. at high impedance. Available in all standard impedances with 90° tilting head and 20 ft. heavy duty removable cable set.



FOR PROFESSIONAL RESULTS WITH YOUR RIG

TURNER 99 DYNAMIC The most rugged microphone in the entire Turner line. Professional in both appearance and performance. Engineered and built for the discriminating user who wants utmost in efficiency and dependability. Withstands severe climate and temperature changes. Semi- or non-directional operation. Baked gun-metal finish. Level: 52db below 1 volt/dyne/sq.cm. Response: Flat within ± 5 db from 40 to 9000 c.p.s. Choice of 50, 200, 500 ohms or high impedance with 20 ft. removable cable set. Also available as Model 999 with Balanced Line features for critical applications.



PLUS PERFORMANCE AT LOW COST... TURNER CHALLENGERS



Turner Challenger Microphones are designed and built to give highly satisfactory results in economical P.A., sound system, and amateur installations. Price considered, they have no equal for performance. They are built with the same care and precision as all Turner Microphones and are fully guaranteed.



MODEL BX CRYSTAL A semi-directional unit for recording, P. A., and amateur work. Attractive brown enamel finish. High quality crystal. Humidity protected. Shock mounted and equipped with barometric compensator. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within ± 5 db from 50-6000 c.p.s. With 7 ft. attached cable.

MODEL BD DYNAMIC Same style and finish as Model BX except equipped with high level dynamic cartridge. Rugged. Works indoors or out. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within ± 8 db from 50-6000 c. p. s. Choice of 50, 200, 500 ohms, or high impedance. Complete with 7 ft. attached cable.

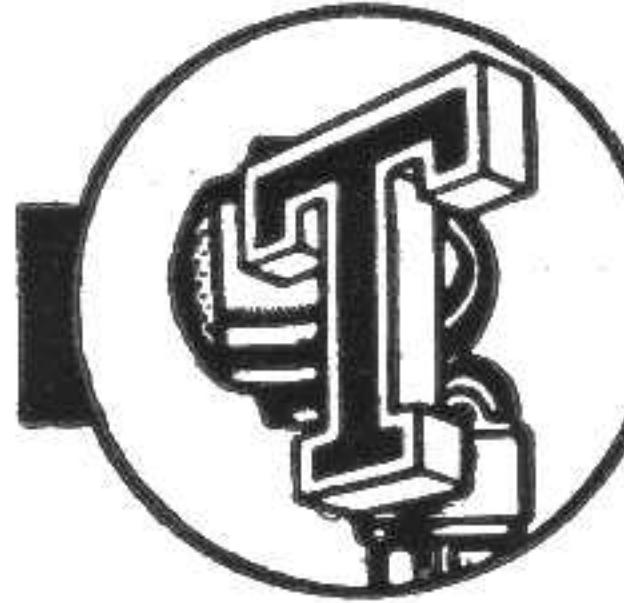
MODEL CX CRYSTAL Attractive general purpose semi-directional microphone finished in satin chrome. Has 7 ft. removable cable set. High quality humidity protected crystal. Shock mounted and equipped with barometric compensator. Level: 52db below 1 volt/dyne/sq. cm. Response: Flat within ± 5 db from 50-7000 c.p.s.

MODEL CD DYNAMIC Same appearance and satin chrome finish as Model CX. Smooth performing dynamic circuit withstands rougher handling. Level: 52db below 1 volt/dyne/sq. cm. Response: flat within ± 8 db from 50-7000 c.p.s. Complete with 7 ft. removable cable set in a choice of 50, 200, 500 ohms, or high impedance.

Complete Turner Microphone line includes crystal and dynamic units for every communication and sound need. Write for literature.

THE TURNER COMPANY

920 17th Street N.E., Cedar Rapids, Iowa



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MICROPHONES LICENSED UNDER U. S. PATENTS OF THE AMERICAN TELEPHONE AND TELEGRAPH COMPANY, AND WESTERN ELECTRIC COMPANY, INCORPORATED. CRYSTALS LICENSED UNDER PATENTS OF THE BRUSH DEVELOPMENT CO.

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

B & W



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B & W Inductor
Coil and Capacitor
Catalog.

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INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in locating the country when DX calls are heard. Figures in parentheses () show the amount of postage required when mailing from the United States and possessions. The first figure is for letters, (first ounce or fraction), and the second figure for post cards or QSL cards.

Manchuria

AC3	(5, 3)	SIKKIM
AC4	(5, 3)	TIBET
AR	(5, 3)	SYRIA
C	(5, 3)	CHINA
CE	(3, 2)	CHILE
CM-CO	(3, 2)	CUBA
CN8	(5, 3)	FRENCH MOROCCO
CP	(3, 2)	BOLIVIA
CR4	(5, 3)	CAPE VERDE ISLANDS
CR5	(5, 3)	PORTUGUESE GUINEA
CR6	(5, 3)	ANGOLA
CR7	(5, 3)	MOZAMBIQUE
CR8	(5, 3)	GOA (Portuguese India)
CR9	(5, 3)	MACAU
CR10	(5, 3)	TIMOR ISLAND (Port.)
CT1	(5, 3)	PORTUGAL
CT2	(5, 3)	AZORES ISLANDS
CT3	(5, 3)	MADERIA ISLANDS
CX	(3, 2)	URUGUAY
D	(5, 3)	GERMANY
EA	(3, 2)	SPAIN
EA6	(3, 2)	BALEARIC ISLANDS
EA8	(3, 2)	CANARY ISLANDS
EA9	(3, 2)	SPANISH MOROCCO
EL	(5, 3)	IRELAND
EK1	(5, 3)	TANGIER ZONE
EL	(5, 3)	LIBERIA
EP, EQ	(5, 3)	IRAN (ex Persia)
ET	(5, 3)	ETHIOPIA
F	(5, 3)	FRANCE
FA	(5, 3)	ALGERIA
FB8	(5, 3)	MADAGASCAR
FD8	(5, 3)	FRENCH TOGOLAND
FE8	(5, 3)	FRENCH CAMEROONS
FF8	(5, 3)	FRENCH WEST AFRICA
FG8	(5, 3)	GUADELOUPE
FI8	(5, 3)	FRENCH INDO-CHINA
FK8	(5, 3)	NEW CALEDONIA
FL8	(5, 3)	FRENCH SOMALILAND
FM8	(5, 3)	MARTINIQUE
FN	(5, 3)	FRENCH INDIA
FO8	(5, 3)	TAHITI
FP8	(5, 3)	MIQUELON & ST. PIERRE IS.
FQ8	(5, 3)	FRENCH EQUATORIAL AFRICA
FR8	(5, 3)	REUNION ISLAND
FT4	(5, 3)	TUNISIA
FU8	(5, 3)	NEW HEBRIDES
FY8	(5, 3)	FRENCH GUIANA
G	(5, 3)	ENGLAND
GC	(5, 3)	CHANNEL ISLANDS
GL	(5, 3)	NORTHERN IRELAND
GM	(5, 3)	SCOTLAND
GW	(5, 3)	WALES
HA	(5, 3)	HUNGARY
HB	(5, 3)	SWITZERLAND
HC	(3, 2)	ECUADOR
HE1	(5, 3)	LIECHTENSTEIN
HH	(3, 2)	HAITI
HI	(3, 2)	DOMINICAN REPUBLIC
HK	(3, 2)	COLOMBIAN REPUBLIC
HP	(3, 2)	PANAMA
HR	(3, 2)	HONDURAS
HS	(5, 3)	SIAM
HZ	(5, 3)	SAUDI ARABIA
I	(5, 3)	(HEDJAZ & NEJDI)
I6	(5, 3)	ITALY
I7	(5, 3)	ERITREA
J8	(5, 3)	JAPAN
J9	(3, 1)	KOREA
K	(3, 1)	OKINAWA
KA	(5, 3)	UNITED STATES
KB6	(5, 3)	PHILIPPINE ISLANDS
KC4		BAKER, CANTON, ENDERBURY, HOWLAND & PHOENIX ISLANDS
KG6	(3, 1)	ANTARCTICA
		MARIANA ISLANDS (Guam)

KH6	(3, 1)	HAWAIIAN ISLANDS
KJ6	(3, 1)	JOHNSTON ISLAND
KL7	(3, 1)	ALASKA
KM6	(3, 1)	MIDWAY ISLAND
KP4	(3, 1)	PUERTO RICO
KP6	(3, 1)	PALMYRA & JARVIS ISLANDS
KS4	(3, 1)	SWAN ISLAND
KS6	(3, 1)	U. S. SAMOA
KV4	(3, 1)	VIRGIN ISLANDS
KW6	(3, 1)	WAKE ISLAND
KZ5	(3, 1)	CANAL ZONE
LA	(5, 3)	NORWAY
LU	(3, 2)	ARGENTINA
LX	(5, 3)	LUXEMBOURG
LZ	(5, 3)	BULGARIA
NY4	(3, 1)	GUANTANAMO BAY, CUBA
OA	(3, 2)	PERU
OH	(5, 3)	FINLAND
OE	(5, 3)	AUSTRIA
OK	(5, 3)	CZECHOSLOVAKIA
ON	(5, 3)	BELGIUM
OQ5	(5, 3)	BELGIAN CONGO
OX	(5, 3)	GREENLAND
OY	(5, 3)	FAEROES ISLANDS
OZ	(5, 3)	DENMARK
PA, PI	(5, 3)	NETHERLANDS
PJ	(5, 3)	NETH. WEST INDIES
PK1, 2, 3	(5, 3)	JAVA
PK4	(5, 3)	SUMATRA
PK5	(5, 3)	BORNEO (Neth. Indies)
PK6	(5, 3)	CELEBES & MOLUCCA IS., & NETHERLAND NEW GUINEA
PX	(5, 3)	ANDORRA
PY	(3, 2)	BRAZIL
PZ	(5, 3)	SURINAM
SM	(5, 3)	SWEDEN
SP	(5, 3)	POLAND
ST	(5, 3)	SUDAN
SU	(5, 3)	EGYPT
SV	(5, 3)	CRETE & GREECE
TA	(5, 3)	TURKEY
TF	(5, 3)	ICELAND
TG	(3, 2)	GUATEMALA
TI	(3, 2)	COSTA RICA
UA1-3-4-6	(5, 3)	EUROPEAN RUSSIAN SOCIALIST FEDERATED SOVIET REPUBLIC
UA9-8	(5, 3)	ASIATIC RUSSIAN S. F. S. R.
UB5	(5, 3)	UKRAINE
UC5	(5, 3)	WHITE RUSSIAN S.S.R.
UD6	(5, 3)	AZERBAIJAN
UF6	(5, 3)	GEORGIA
UG6	(5, 3)	ARMENIA
UH8	(5, 3)	TURKOMAN
UI8	(5, 3)	UZBEK
UJ8	(5, 3)	TADZHIK
UL7	(5, 3)	KAZAKH
UM8	(5, 3)	KIRGHIZ
UN1	(5, 3)	KARELO-FINNISH REPUBLIC
UO5	(5, 3)	MOLDAVIA
UP	(5, 3)	LITHUANIA
UQ	(5, 3)	LATVIA
UR	(5, 3)	ESTONIA
VE	(3, 2)	CANADA
VK	(5, 3)	AUSTRALIA
VK4	(5, 3)	PAPUA TERRITORY
VK7	(5, 3)	TASMANIA
VK9	(5, 3)	TER. OF NEW GUINEA
VO	(3, 2)	NEWFOUNDLAND & LABRADOR
VP1	(5, 3)	BRITISH HONDURAS
VP2	(5, 3)	LEEWARD & WINDWARD ISLANDS
		(British), Antigua, Grenada, St. Kitts, St. Lucia, St. Vincent, and Dominica.
VP3	(5, 3)	BRITISH GUIANA
VP4	(5, 3)	TRINIDAD & TOBAGO IS.

VP5	(5, 3)	JAMAICA, CAYMAN, TURKS & CAICOS IS.
VP6	(5, 3)	BARBADOS
VP7	(5, 3)	BAHAMA ISLANDS
VP8	(5, 3)	FALKLAND ISLANDS, South Georgia, South Orkney and South Shetland Islands.
VP9	(5, 3)	BERMUDA ISLANDS
VQ1	(5, 3)	ZANZIBAR
VQ2	(5, 3)	NORTHERN RHODESIA
VQ3	(5, 3)	TANGANYIKA
VQ4	(5, 3)	KENYA
VQ5	(5, 3)	UGANDA
VQ6	(5, 3)	BRITISH SOMALILAND
VQ8	(5, 3)	CHAGOS ISLAND & MAURITIUS
VQ9	(5, 3)	SEYCHELLES
VR1	(5, 3)	GILBERT, ELICE & OCEAN ISLANDS
VR2	(5, 3)	FIJI ISLANDS
VR3	(5, 3)	FANNING ISLAND
VR4	(5, 3)	SOLOMON ISLANDS
VR5	(5, 3)	TONGA (Friendly) ISLAND
VR6	(5, 3)	PITCAIRN ISLAND
VS1	(5, 3)	STRAIT SETTLEMENTS
VS2	(5, 3)	FEDERATED MALAY STATES
VS3	(5, 3)	NON-FEDERATED MALAY STATES
VS4	(5, 3)	BRITISH NORTH BORNEO
VS5	(5, 3)	BRUNEI & SARAWAK
VS6	(5, 3)	HONG KONG
VS7	(5, 3)	CEYLON
VS9	(5, 3)	ADEN & SOCOTRA ISLANDS
VU	(5, 3)	INDIA
VU4	(5, 3)	LACCADIVE ISLANDS
VU7	(5, 3)	BAHREIN ISLANDS
W	(3, 1)	UNITED STATES
XE	(3, 2)	MEXICO
XU	(5, 3)	CHINA
XZ	(5, 3)	BURMA
YA	(5, 3)	AFGHANISTAN
YI	(5, 3)	IRAQ
YJ	(5, 3)	NEW HEBRIDES
YN	(3, 2)	NICARAGUA
YR	(5, 3)	ROUMANIA
YS	(3, 2)	EL SALVADOR
YT, YU	(5, 3)	YUGOSLAVIA
YV	(3, 2)	VENEZUELA
ZA	(5, 3)	ALBANIA
ZB1	(5, 3)	MALTA
ZB2	(5, 3)	GIBRALTAR
ZC1	(5, 3)	TRANSJORDAN
ZC2	(5, 3)	COCON ISLANDS
ZC3	(5, 3)	CHRISTMAS ISLAND
ZC4	(5, 3)	CYPRUS
ZC6	(5, 3)	PALESTINE
ZD1	(5, 3)	SIERRA LEONE
ZD2	(5, 3)	NIGERIA
ZD3	(5, 3)	GAMBIA
ZD4	(5, 3)	GOLD COAST & TOGOLAND
ZD6	(5, 3)	NYASALAND
ZD7	(5, 3)	SAINT HELENA
ZD8	(5, 3)	ASCENSION ISLAND
ZD9	(5, 3)	TRISTAN DA CUNHA
ZE	(5, 3)	SOUTHERN RHODESIA
ZK1	(5, 3)	COOK ISLANDS
ZK2	(5, 3)	NIUE
ZL	(5, 3)	NEW ZEALAND
ZM	(5, 3)	WESTERN SAMOA
ZP	(3, 2)	PARAGUAY
ZS	(5, 3)	UNION OF SOUTH AFRICA

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For the benefit of our out-of-town Amateur friends, we maintain a world-wide mail order service. Write for special catalog listings on transmitting tubes, tube sockets, coaxial cable and connectors, transmitting capacitors, wire, wire wound resistors, relays, mica and silver mica condensers.

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320 N. LA SALLE ST. DEPT. B-10, CHICAGO 10, ILL.

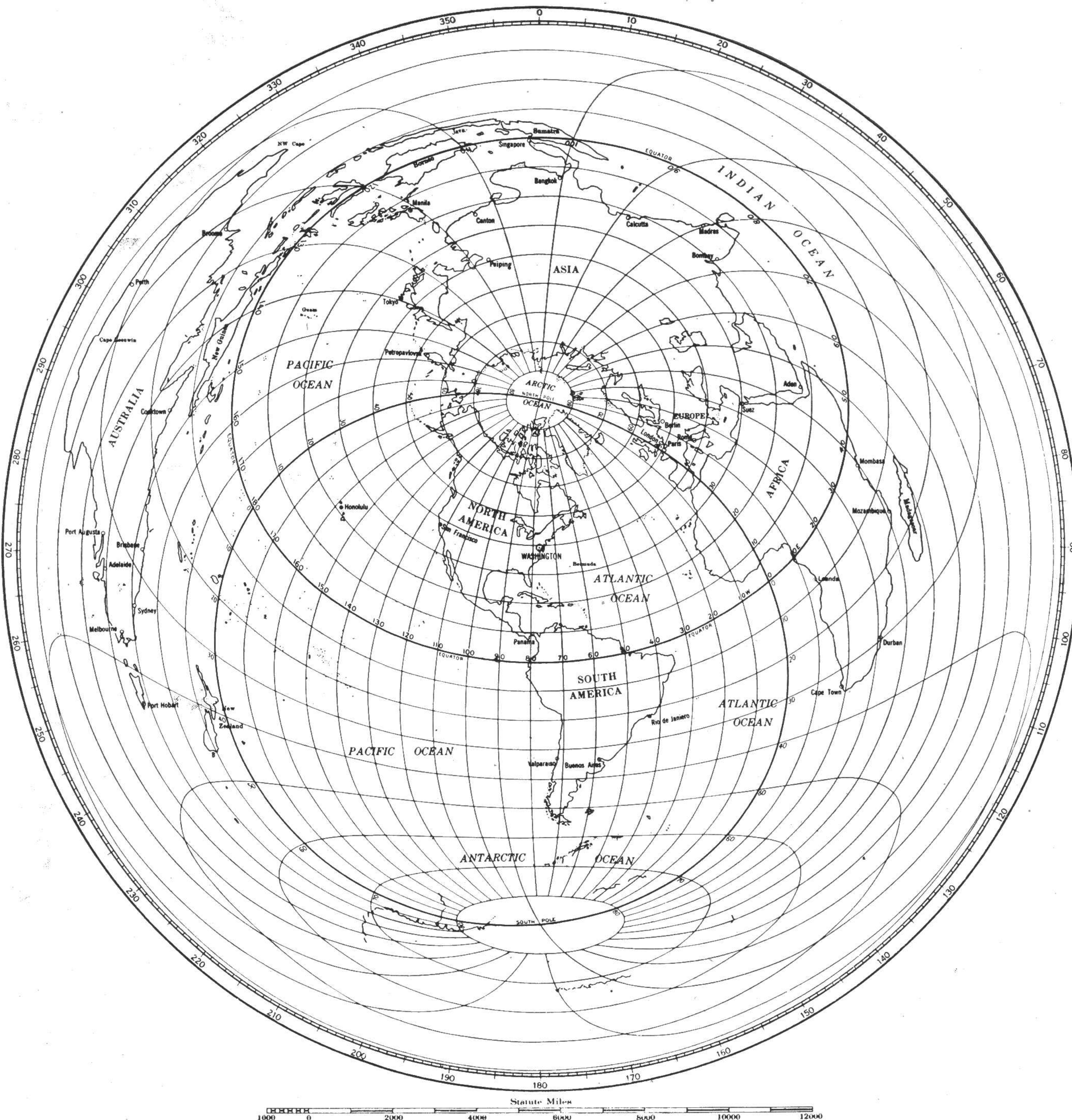
Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

PREFIXES - BY COUNTRIES

The following countries listed in alphabetical order by country show international radio amateur prefixes. The figures in parentheses () are international air mail postage rates for each half ounce or fraction in effect November 1, 1946. The air mail rate for Alaska, Canada, Canal Zone, Canton Island, Guam, Guantanamo Bay, Hawaii, Johnston Island, Mexico, Midway Island, Puerto Rico and the Virgin Islands is 5 cents per ounce or fraction.

	Cents		Cents		Cents
ADEN	(25)	VS9	GOA (Portuguese India)	(25)	CR8
AFGHANISTAN	(25)	YA	GOLD COAST	(25)	ZD4
ALASKA	(05)	KL7	GREECE	(15)	SV
ALBANIA	(15)	ZA	GREENLAND		OX
ALGERIA	(15)	FA	GRENADE	(10)	VP2
ANDORRA	(15)	PX	GUADELOUPE	(10)	FG8
ANGOLA	(25)	CR6	GUAM	(05)	KG6
ANTARCTICA		KC4	GUANTANAMO BAY, CUBA		NY4
ANTIGUA	(10)	VP2	GUATEMALA	(10)	TG
ARGENTINA	(10)	LU			
ASCENSION I.	(15)	ZD8	HAITI	(10)	HH
AUSTRALIA	(25)	VK	HAWAIIAN IS.	(05)	KH6
AUSTRIA	(15)	OE	HONDURAS	(10)	HR
AZORES IS.	(15)	CT2	HONG KONG	(25)	VS6
BAHAMA IS.	(10)	VP7	HOWLAND I.		KB6
BAHREIN IS.	(25)	VU7	HUNGARY	(15)	HA
BAKER I.	(05)	KB6			
BALEARIC IS.	(15)	EA6	ICELAND	(15)	TF
BARBADOS	(10)	VP6	INDIA	(25)	VU
BASUTOLAND	(25)	ZS4	IRAN (ex Persia)	(25)	EP-EQ
BELGIAN CONGO	(25)	OQ5	IRAQ	(25)	YI
BELGIUM	(15)	ON	IRELAND	(15)	EI
BERMUDA IS.	(10)	VP9	ITALY	(15)	I
BOLIVIA	(10)	CP			
BORNEO (Br. North)	(25)	VS4	JAMAICA	(10)	VP5
BORNEO (Neth. Indies)		PK5	JAN MAYEN I.		OY
BRAZIL	(10)	PY	JAPAN		J
BRITISH GUIANA	(10)	VP3	JARVIS I. (Palmyra Group)		KP6
BRITISH HONDURAS	(10)	VP1	JAVA	(25)	PK1, 2, 3
BULGARIA	(15)	LZ	JOHNSTON IS.		KJ6
BRUNEI	(25)	VS5			
BURMA	(25)	XZ	KENYA	(25)	VQ4
CAMEROONS (British)	(25)	ZD2	KOREA		JL J8
CAMEROONS (French)	(25)	FE8			
CANADA	(05)	VE	LABRADOR	(10)	VO
CANAL ZONE	(05)	KZ5	LACCADIVE IS.	(25)	VU4
CANARY IS.	(25)	EA8	LEEWARD IS.	(10)	VP2
CANTON I.	(05)	KB6	LIBERIA	(25)	EL
CAPE VERDE IS.	(25)	CR4	LIECHTENSTEIN	(15)	HE1
CAYMAN IS.	(10)	VP5	LITTLE AMERICA		KC4
CELEBES IS.	(25)	PK6	LUXEMBOURG	(15)	LX
CEYLON	(25)	VS7			
CHAGOS IS.	(25)	VQ8	MACAU	(25)	CR9
CHANNEL IS.	(15)	GC	MADAGASCAR	(25)	FB8
CHILE	(10)	CE	MADERIA IS.	(15)	CT3
CHINA	(25)	C.	MALAYA	(25)	VS
CHINA	(25)	C, XU	MALTA	(15)	ZB1
CHRISTMAS I.		ZC3	MARIANA IS.		KG6
COCOS IS.		ZC2	MARTINIQUE	(10)	FM8
COLOMBIAN REP.	(10)	HK	MAURITIUS	(25)	VQ8
COOK IS.		ZK1	MEXICO	(05)	XE
COSTA RICA	(10)	TI	MIDWAY I.	(05)	KM6
CRETE	(15)	SV	MIQUELON & ST. PIERRE IS.	(.07 per oz.)	FP8
CUBA	(08)	CM-CO	MOLUCCA IS.		PK6
CYPRUS	(25)	ZC4	MOROCCO (French)	(15)	CN8
CZECHOSLOVAKIA	(15)	OK	MOROCCO (Spanish)	(15)	EA9
DENMARK	(15)	OZ	MOZAMBIQUE		CR7
DOMINICA	(10)	VP2			
DOMINICAN REP.	(10)	HI	NETHERLANDS	(15)	PA, PI
ECUADOR	(10)	HC	NETHERLAND INDIES	(25)	PK
EGYPT	(15)	SU	NETH. WEST INDIES	(10)	PJ
ELLICE IS.		VR1	NEW CALEDONIA	(25)	FK8
ENDERBURY I.		KB6	NEWFOUNDLAND	(10)	VO
ENGLAND	(15)	G	NEW GUINEA (Neth.)		PK6
ERITREA	(25)	I6	NEW GUINEA (Ter. of)	(25)	VK4
ETHIOPIA	(25)	ET	NEW HEBRIDES		FU8, YJ
FAEROES IS.	(15)	OY	NEW ZEALAND	(25)	ZL
FALKLAND IS.	(10)	VP8	NICARAGUA	(10)	YN
FANNING I.		VR3	NIGERIA	(25)	ZD2
FIJI IS.	(25)	VR2	NIUE		ZK2
FINLAND	(15)	OH	NORTHERN IRELAND	(15)	GI
FRANCE	(15)	F	NORTHERN RHODESIA	(25)	VQ2
FR. EQUATORIAL AFRICA	(25)	FQ8	NORWAY	(15)	LA
FRENCH GUIANA	(10)	FY8	NYASALAND	(25)	ZD6
FRENCH INDIA	(25)	FN	OCEAN ISLAND		VR1
FR. INDO-CHINA	(25)	FI8	OKINAWA		J9
FRENCH OCENIANA	(25)	FO8	PALESTINE	(25)	ZC6
FRENCH W. AFRICA	(25)	FF8	PALMYRA IS.	(05)	KP6
GAMBIA	(25)	ZD3	PANAMA	(10)	HP
GERMANY	(15)	D	PAPUA TERR. (Australian)	(25)	VK4
GIBRALTAR	(15)	ZB2	PARAGUAY	(10)	ZP
GILBERT IS.		VR1	PERU	(10)	OA
			PHILIPPINE IS.	(25)	KA
			PHOENIX IS.	(05)	KB6
			PITCAIRN I.		VR6
			POI AND	(15)	SP

Great Circle Chart of the World Centered on WASHINGTON, D. C.



To find the great circle bearing of any point in the world from Washington, D. C., draw a straight line from the center and note the reading in degrees as indicated on the outer scale. The bar scale may be used to determine the approximate distance. This map was prepared by the Hydrographic Office of the U. S. Navy Department.

Going places
(AGAIN)

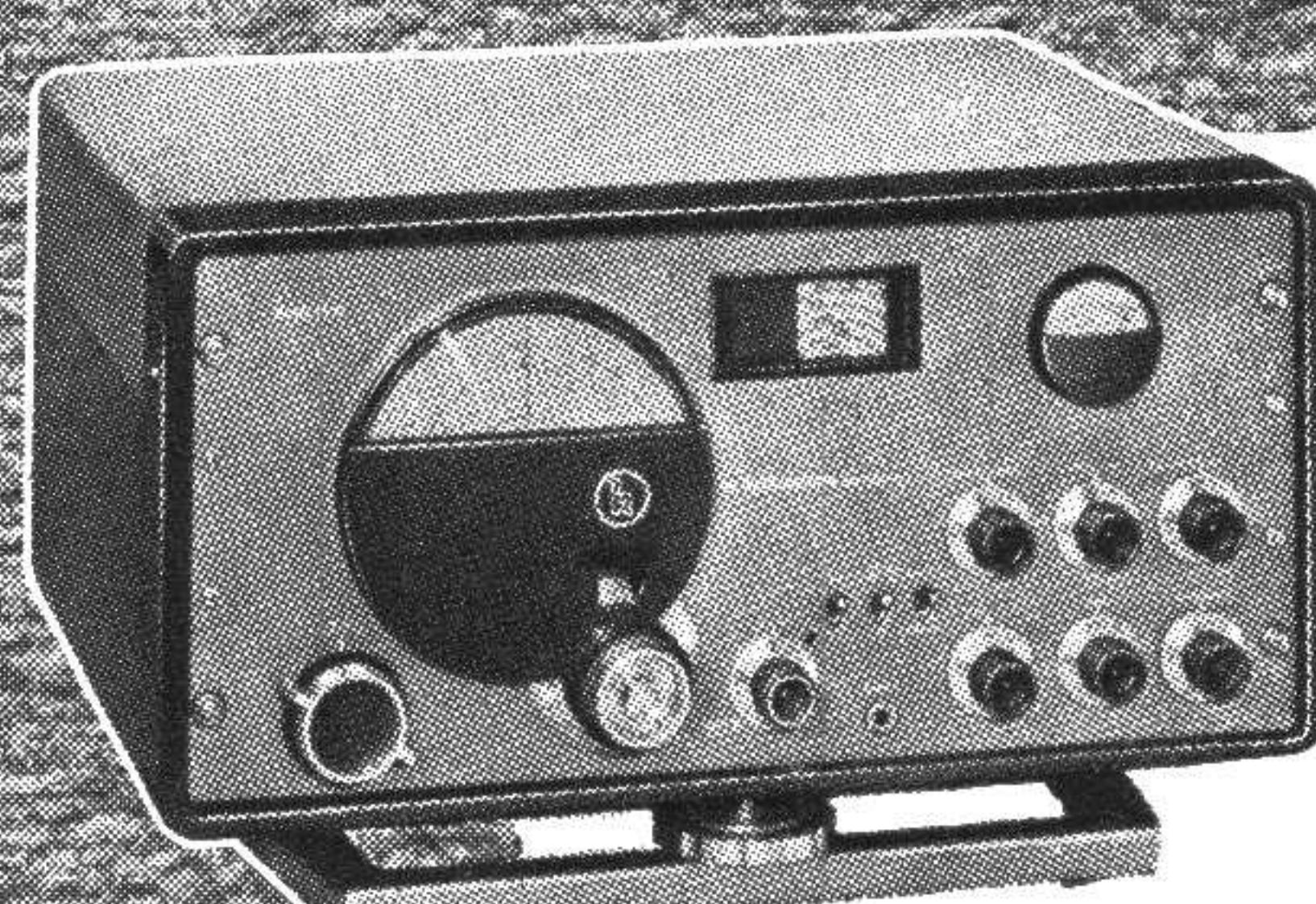
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3

GREAT RECEIVERS designed and priced
for hams who are going places, too



Hallicrafters famous radio equipment, sold and distributed around the world before the war and used with superb effectiveness in every theater during the war is once again on the move. Watch for latest details of the Gattis equipped expedition to the Mountains of the Moon in deepest Africa—a new and exciting test for the ingenuity of hams and the performance of Hallicrafters equipment.



Model SX-42 Described by hams who have operated it as "the first real postwar receiver." One of the finest CW receivers yet developed. Greatest continuous frequency coverage of any communications receiver—from 540 kc to 110 Mc, in six bands. FM-AM-CW. 15 tubes. Matching speakers available. **\$2750**

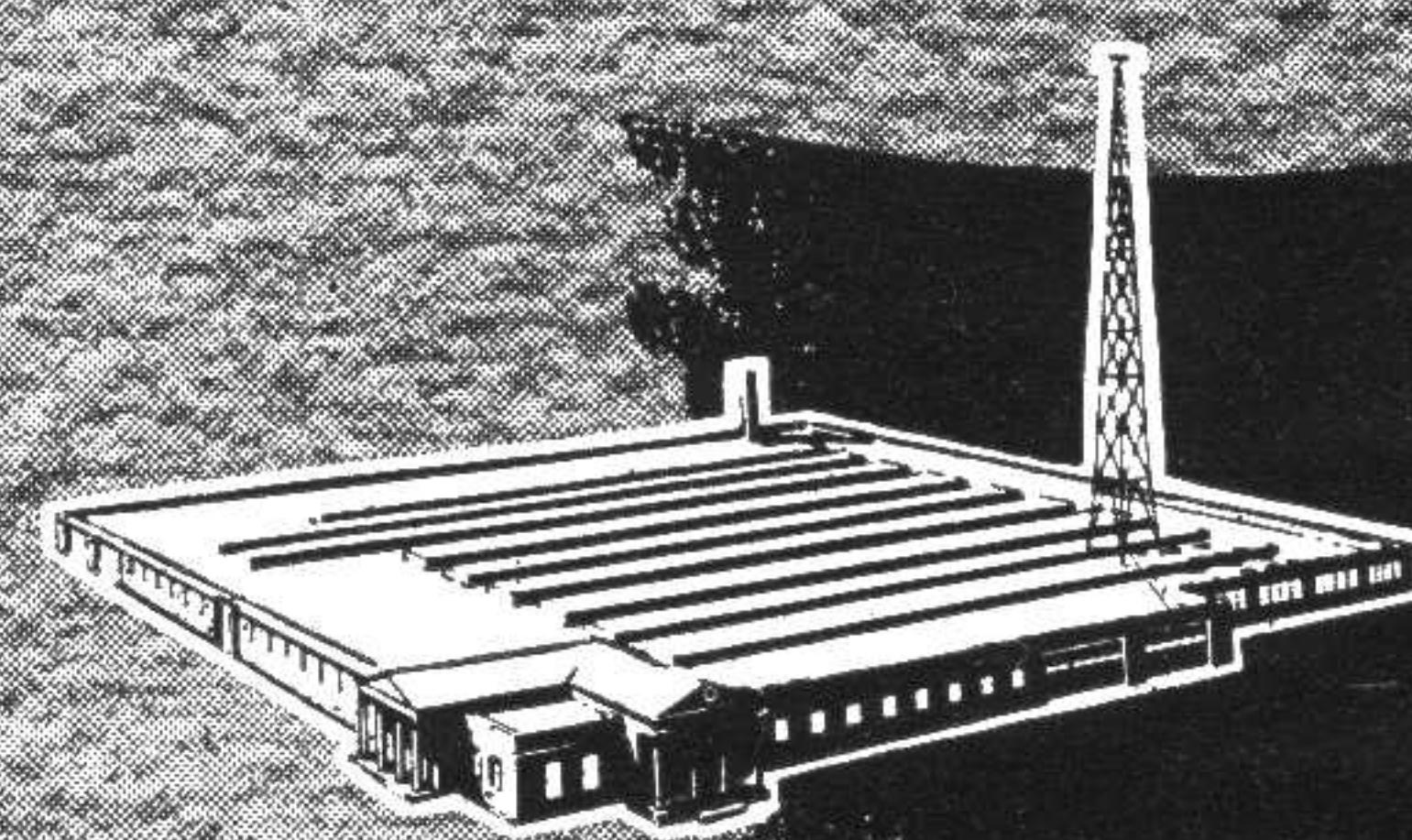


Model S-40A Function, beauty, unusual radio performance and reasonable price are all combined in this fine receiver. Overall frequency range from 540 kc to 43 Mc, in four bands. Nine tubes. Built-in dynamic speaker. Many circuit refinements never before available in medium price class. **\$8950**



Model S-38 Overall frequency range from 540 kc to 32 Mc, in four bands. Self contained speaker. Compact and rugged, high performance at a low price. Makes an ideal standby receiver for hams. CW pitch control is adjustable from front panel. Automatic noise limiter. **\$4750**

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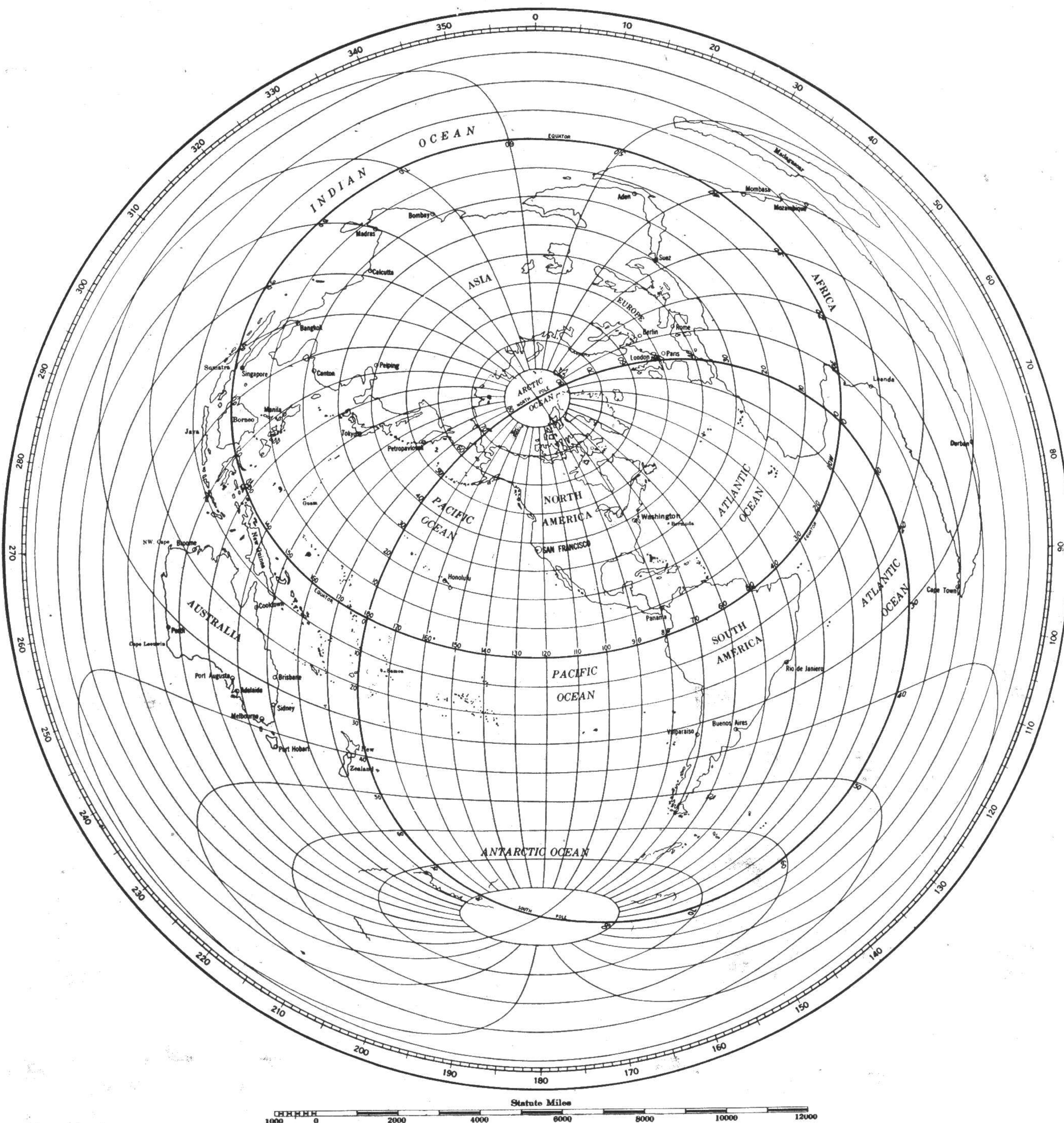
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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

Great Circle Chart of the World Centered on SAN FRANCISCO, CALIFORNIA



To find the great circle bearing of any point in the world from San Francisco draw a straight line from the center and note the reading in degrees as indicated on the outer scale. The bar scale may be used to determine the approximate distance. This map was prepared by the Hydrographic Office of the U. S. Navy Department.

GREAT CIRCLE BEARINGS IN THE UNITED STATES

ATLANTA, GA.	264	322	47	24	25	301	343	15	86	269	297	320	7	271	310	251	347	145	306	281	347	154	345	331	321	234	48	64	48	278	27	318	296	289	308	48	84	
BIRMINGHAM, ALA.	82	326	50	31	40	304	356	26	84	268	299	328	17	270	312	246	5	125	314	287	281	10	142	355	338	0	219	52	67	53	278	37	333	298	290	309	53	83
BISMARCK, N. D.	132	137	92	97	115	209	114	105	124	167	205	133	104	198	273	165	119	132	148	150	233	123	135	109	108	131	151	99	111	102	217	106	134	237	249	282	107	119
BOSTON, MASS.	236	241	291	277	247	278	273	267	226	254	275	275	262	293	246	263	292	253	273	256	207	278	286	249	237	235	219	233	268	258	262	280	295	236	217			
BUFFALO, N. Y.	208	217	291	92	206	273	264	237	192	241	269	268	261	252	290	231	243	191	258	237	267	231	184	274	286	225	219	118	160	134	261	199	248	276	293	159	174	
CHARLESTON, W. VA.	208	223	307	61	24	287	309	359	174	251	282	293	345	260	300	238	293	180	279	251	274	270	174	316	311	245	223	66	108	71	269	31	275	286	282	301	80	143
CHEYENNE, WYO.	108	112	26	76	91	81	81	103	140	187	83	79	189	319	143	90	113	101	119	241	95	119	76	62	104	128	81	92	83	219	84	98	268	262	303	87	100	
CHICAGO, ILL.	161	175	302	82	78	125	272	93	144	221	266	268	80	242	293	210	151	155	245	208	262	157	156	350	308	173	190	91	116	97	254	101	212	274	272	295	106	131
CLEVELAND, OHIO	197	209	297	80	55	179	277	176	240	272	310	252	293	228	245	180	261	235	268	226	175	290	296	219	214	95	136	105	262	127	250	278	277	296	124	156		
COLUMBIA, S. C.	268	267	317	41	10	354	299	329	356	270	295	311	350	271	308	256	326	189	300	279	282	320	174	331	323	297	246	39	53	37	279	7	305	295	290	307	33	85
DALLAS, TEXAS	81	82	349	57	49	61	325	36	50	80	319	15	45	266	325	157	47	97	15	61	280	55	112	32	11	65	115	60	71	61	277	55	40	308	291	315	63	80
DENVER, COLORADO	103	107	22	73	72	87	6	75	77	99	134	74	74	189	325	138	84	109	91	112	246	90	116	70	55	98	124	78	88	80	224	80	91	283	267	308	83	96
DETROIT, MICH.	188	200	295	86	79	164	273	263	129	168	233	268	268	248	291	222	224	174	254	227	265	208	171	282	292	206	207	100	133	109	258	128	238	238	274	294	124	151
EL PASO, TEXAS	77	78	14	58	54	64	8	50	56	76	79	8	42	53	345	98	57	86	48	71	285	62	97	46	33	68	92	61	69	62	290	59	57	335	298	327	64	75
EL PASO, TEXAS	112	116	85	84	88	100	133	97	93	108	134	141	105	92	162	136	101	115	115	122	203	105	119	94	91	111	127	89	98	92	180	94	109	179	224	283	95	104
HOUSTON, TEXAS	64	60	348	50	40	49	329	25	39	67	338	325	6	34	285	327	34	84	3	26	288	40	103	22	5	46	86	52	60	53	289	45	24	314	297	319	5	68
INDIANAPOLIS, IND.	166	185	308	72	58	110	281	332	62	143	234	276	290	41	250	298	220	157	267	226	267	168	158	338	316	188	199	80	107	85	261	80	251	281	277	298	94	127
JACKSONVILLE, FLA.	327	309	324	33	9	1	308	339	0	8	286	304	323	355	282	314	273	340	314	300	288	338	163	341	332	326	271	29	34	28	287	8	323	303	295	312	23	39
KANSAS CITY, MO.	120	129	332	72	67	90	288	60	73	111	196	278	15	66	236	306	184	82	126	157	262	95	134	50	9	113	157	78	93	81	253	79	97	282	275	302	85	105
LITTLE ROCK, ARK.	97	104	335	59	48	65	307	26	48	92	243	300	352	41	260	315	208	43	114	338	276	55	128	21	356	71	158	62	76	64	271	56	22	297	286	309	67	89
LOS ANGELES, CALIF.	81	82	41	62	61	70	52	62	65	79	88	57	60	62	100	19	96	67	87	67	81	70	94	59	52	76	92	65	71	66	95	67	69	35	319	348	68	78
LOUISVILLE, KY.	166	190	313	66	47	87	287	339	43	137	242	282	301	26	256	302	227	348	156	280	239	271	158	342	322	202	205	71	98	75	266	63	278	285	281	301	82	120
MIAMI, FLA.	337	326	329	22	3	355	313	342	356	355	302	310	329	363	291	318	290	342	345	321	315	293	341	342	335	334	298	18	16	15	293	1	330	308	299	315	11	13
MILWAUKEE, WIS.	162	175	297	87	88	132	267	170	107	147	218	261	253	99	239	290	207	157	156	235	204	259	160	157	298	17												



Now that restrictions on amateur operations are being modified all over the world, working DX in keen competition with other DX-minded hams becomes more of a test of skill and equipment every morning.

Don't go into one of these sessions with a handicap!

With the new National NC-173 you will enjoy much greater "ease of operation" in battling DX through terrific interference and ignition crashes.

Operate the NC-173 and enjoy the stability and sensitivity built into a modern communications receiver.

Visit your dealer today for a demonstration of the NC-173 as well as a first-hand inspection of other National products.

- Frequency Coverage from 540 KC to 31 mc plus 48-56 mc.
- Calibrated bandspread on 6, 10-11, 20, 40 and 80 meter bands.
- Wide range crystal filter adjustable between 200 cycles and 4 kc.
- Adjustable threshold noise limiter for phone and c.w. reception without audio distortion.
- Tone Control.
- Front-of-panel trimmer matches any antenna to receiver.
- S-Meter with adjustable sensitivity for phone and c.w.
- Modern gray enamel cabinet and styling.
- AC-powered ... 110/220 or 220/240 volts, 50-60 cycle.

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